

THE AMERICAN WEEKLY

Greatest
Circulation
in the World

Sunday, November 15, 1931

A Race of Supermen Who Perished 20,000 Years Ago?

Evidence Which Suggests There Was a Powerful and Highly Civilized People Who Understood Secrets of Nature and Science Which Were Only Recently Rediscovered by Modern Man—Where They Lived—What Destroyed Them

By Prof. Rene Thevenin,
The Distinguished French Scientist.

CHAPTER I.

HISTORY tells us that Galileo made the first telescope about 300 years ago, and thus revealed to mankind that the Milky Way in the heavens was really a mass of countless billions of stars which could not be seen with the naked eye. But there are suggestions that the truth about the Milky Way was known to ancient astronomers thousands of years ago.

The great pyramid of Cheops in Egypt was laid out with a knowledge of astronomy and mathematics 5,000 years ago and with a use of scientific instruments of such perfection and precision that modern scientists stand before it in amazement. That great pyramid reveals, some experts believe, knowledge which has been lost to mankind for fifty centuries and only rediscovered in recent years.

Assyrian monuments thousands of years old show representations of what may be intended for the planet Saturn surrounded with a ring—a fact which could only be known by viewing Saturn through a telescope—and history tells us that man's discovery of the telescope dates back only three hundred years.

It is only within the present generation that scientists discovered what is known as the transmutation of metals—the changing of one metal into another. And only very recently did science find out that mercury and gold are the nearest to one another in their atomic constitution, and therefore mercury would be the metal most easily transmuted into gold. And yet the startling fact confronts us that the old alchemists knew this and busied themselves with the task of trying to change mercury into gold. How did they know that it was mercury, a metal not entirely unlike gold, which was the nearest to gold in atomic constitution?

Even the wise men of ancient Egypt may not have been the inventors of the scientific instruments which enabled them to build the pyramid of Cheops, nor is there any evidence that they invented a telescope which revealed the individual stars of the Milky Way or the ring around Saturn. Where then did they get their knowledge?

Was there a race of supermen, a few of whom straggled into Egypt with this knowledge and left their scientific achievements? And why have they disappeared from the face of the earth, leaving no records?

But there is some evidence that they did exist, have left records, and when these are discovered and interpreted, modern science may have to take off its hat to an ancient science of the past, one that in some amazing way saw into the truth of things, got to the heart of problems almost entirely without the aid of telescopes, microscopes, cameras, laboratories and the various tools and instruments of precision with which the modern scientist surrounds himself. The further one peers into the mists of the remote past the more signs appear that a great race, empty-handed, by the sheer power of intellect, got at an astounding amount of scientific truth by methods that can only be called a lost science.

Lost it certainly is. A modern scientist, without his equipment is like a fish out of water. If an Edison or a Marconi or an actor of the best scientific inventive men of today could be transported 10,000 years into the

When We See an Idol Like This or Any Object Inspired by Similar Sentiment We Generally Attribute It to Primitive Race. But Perhaps, on the Contrary, It Is the Last Manifestation, Deformed and Degenerated, of a Race That Was Powerful and Civilized Before Known History and of Which Only These Degraded Remains Exist Today.



For Thousands of Years to Come It Is Probable That the Great Sphinx Will Still Stand in the Desert Which Will Have Been Again Abandoned by Men. This Mysterious Witness of a Lost Civilization Will Present to Men of the Future the Same Puzzle That It Presents Today. It Can Be Shown That It Symbolizes Mysterious Secrets Which Are Not Even Suspected by the Majority of People Today, and Which Modern Science Is Only Beginning to Discover With Much Surprise.

past with all their modern knowledge but empty-handed, they would be lucky to survive as cave men. For lack of laboratories, mines and machine shops, their inventions would hardly get much beyond fire, the bow and arrow, cultivating a few grains and perhaps domesticating an animal or two.

Yet, somehow, an equally empty-handed people, in prehistoric ages, without books or teachers to guide them, found shrewd answers to many riddles of the universe.

The principal difference between man and the other animals is that man alone has bothered his head about the why of things. Animals are clever and studious enough in learning what things are good to eat and what are bad, what creatures to pursue and what to flee from, but they let it go at that. Apes and a few other creatures occasionally are seen experimenting with inanimate objects in a manner that indicates pure curiosity not connected with playfulness or hope of benefit. Some have even thought they detected this rudimentary form of scientific interest in an insect, the praying mantis. But only man has been persistent enough in his curiosity to get anywhere with it.

For thousands of years man's intelligent friend, the dog, has been watching his master build fires and keep them going. Nobody appreciates the comfort of a fire better than the dog and yet the animal will freeze to death rather than drop a stick on a dying fire because he has never bothered to wonder why fire burns.

The vast mechanical equipment with which modern science relieves for its progress is mostly newly invented or recently improved, but there is no evidence that man's mental equipment has improved since the dawn of history or even long before that. It is customary to think of the cave man as a poor, brutal savage with a dull mind in a small, thick skull. Many of them were just that, but thousands of years before the first historic record there existed a race of European cave men with larger and better brains and therefore probably with better minds than the average civilized man has today.

Where did these supermen come from, suddenly, as

if they had landed from another world? His Majesty's ship Challenger of the British navy is being fitted out in the hope of discovering that very thing. By careful soundings it is planned to trace the outlines of the "Lost Atlantis," if it ever existed. Tradition says that this great island, "west of the Pillars of Hercules," was once peopled by a race of men like gods. This "isle of the Blessed" is supposed to have sunk under the sea, long before the days of Greece and probably even before Egypt.

What became of these big-brained stone-age men whose skeletons are so magnificent that they have been called "Greeks of the old stone age," nobody knows. But they may have been the inventors of the lost science; at least their skulls were big enough to have housed a brain capable of some such achievement.

The oldest fossil bones that can be called human show that man's primitive ancestors were not greatly superior to the gorilla or chimpanzee, but presumably even then man's incurable curiosity was getting him into trouble most of the time and once in a while into something profitable.

No doubt he burned his stubby fingers a thousand times before he finally learned how to use fire to his advantage, and he always will be burning and blowing himself up as long as he keeps trying new tricks with that fascinating discovery. The general picture is quite clear that with pitiful slowness he improved his condition bit by bit till he reached the present comfortable civilization and with it he changed from a hulking aplike small-brained brute to something that can wear a dinner coat without looking funny.

But that is only part of the story. It has not been a steady progress. There have been sudden, incredible leaps forward and equally discouraging plunges backward. In historic times the Greeks suddenly dented the world not only with arts and literature but by founding most of the modern sciences. It looked as if the millennium had come, and yet, a few centuries later, the world

The Discoveries of Modern Science Tend to Prove That Our First Parents Must Have Looked Like This Creature. Did a Group of Descendants of This Common Ancestor Set Off on a Path of Evolution in Some Part of the World, Which Led It to a Degree of Civilization and Scientific Knowledge Thousands of Years Ago Which We Have Reached Only Today?

was plunged in the ignorance and misery of the dark ages, worse than before Greece had lighted the world. Long before history a worse tragedy happened to those so-called "paleolithic Greeks." The Cro-Magnon man, averaging more than six feet in height and with a brain bigger than the average European or American today, spread over much of Europe and no doubt dominated it. Then something put an end to him. Small-boned and small-brained men lived and died and left their bones and flints where the great men had carried on.

But did these big brains in their time throw any light on the riddles of the universe? Undoubtedly. That huge organ of thought was used and must have gnawed deeply into the problems just as the big teeth of the rodents gnawed into the material things of that day. Have their discoveries and thoughts been lost entirely? There is considerable hope that they have not. For one thing, much of their wisdom may have come down to us twisted, distorted and degenerate, embalmed in sorcery, magic, witchcraft and cabalistic art.

The first thing that modern science did was to clear away all this rubbish about alchemy, astrology and necromancy, to throw out of the laboratory all nonsense about transmutation of metals, the elixir of life, the philosopher's stone and the other legends and traditions. With its feet on solid ground science proved its way with exact facts, and then a queer thing happened.

Modern science of which we are so proud, while engaged ceaselessly in trying to raise the veil which hides the past from us, is beginning to perceive with surprise that these ancient traditions, even some that are called superstitions, are not all fabulous legends, as we were calling them yesterday with so much contempt.

As we pursue our researches further, they lead us into mysterious paths obstinately followed by our ancestors, paths which we thought abandoned forever. What makes this discovery so disquieting is that we return to these paths, no longer guided by a simple faith which does not ask for evidence, but led by our positive reasoning, by our experiments and our scientific deductions, by a mass of controlled evidence as tangible and as unquestionable as these which made us revolt against the old beliefs.

We had escaped from the old world from which logic and reason seemed to lead. But it is reason and logic which bring us back, leading us lost in a mystery even greater than that from which we boasted we had escaped.

The following chapters will be devoted to the demonstration of these facts. In examining one after another the old legends, which nursed humanity up to the beginning of the present scientific period, we shall see that even those which seem the most absurd may contain elements of truth, and finally that certain of them furnish explanations of facts which we could not have found anywhere else.

We shall see also that in proportion as we go back into history, this truth does not hide itself more and more impenetrable veils, but that it appears in its pure and luminous primitive simplicity, freed from the false ornaments in which the ignorance or the thoughtlessness of later ages clothed it.

We shall discover, in short, that at the beginning of civilization humanity certainly knew many great secrets of which it later lost all understanding, which we are only beginning today to rediscover with much error and pain. Having established these facts it will remain to inquire how these secrets were first obtained, by whom they were possessed, and under what circumstances they were forgotten or transformed in an unrecognizable manner.

It must be understood that we shall observe the principles of science in conducting this demonstration. Whatever religious belief a man may profess is worthy of respect, and in the consideration of facts we shall not disturb his confidence. This question is aside from our subject.

(Continued Next Sunday)

A detailed black and white illustration of a housefly, showing its head, thorax, abdomen, wings, and legs. The fly is positioned diagonally, with its head at the top left and its abdomen extending towards the bottom right. The wings are spread, showing the characteristic venation. The illustration is highly detailed, showing the texture of the fly's body and the structure of its wings.

series of experiments with blowflies. His "patients" were guinea pigs, which he infected with the destructive osteomyelitis germs. When the bones of the little animals had begun to waste away by the inroads of the dread disease, he began treating the wounds with the

Medical science has recognized the value of blowflies in the treatment of this and, perhaps, other maladies. The Government is doing important pioneer work in raising the flies under sanitary conditions and in quantity.

Just how the flies bring about a cure is not known, but it is known that they feed on dead tissue and wounds to heal. Dr. Baer says they also disinfected this is a point that cannot be without further experiment.

The posture of the figure is particularly interesting to archaeologists and to students of purely American art. The little idol is seated, with the right hand clutching the right knee and drawing it toward the chin. The left leg is folded under the body. The stone image of a seated figure has been found in the burial mounds in Illinois and in various other places in the Mississippi Valley, but few of them have been as skillfully carved as this one, which serves as one more bit of tangible evidence that the redmen who inhabited what is now the United States in the days before the dawn of written history, had developed artistic expression to an almost unbelievably high state.

A black and white portrait of a woman with dark, wavy hair, wearing a light-colored shawl or sari. She is smiling slightly and looking towards the camera. Her hands are clasped in front of her.

"Our school," said Dr. Bryan, "is not a money-making enterprise. I operate the school for my personal pleasure and for the joy of my students. I have a lot of real sport out of the pastime. Students pay for such items as the gasoline used in the boats in which we do our laboratory work and, of course, my salary. But the equipment of the diploma is not cost them their 'credit' in what might be called tuition fees.

"Some of our graduates were experts when they came here and they desired more of us to prove their right to be associated with our alumni, but they had to demonstrate their skill before they were awarded a diploma. So long as I am head of the institute no one can be a graduate until he has shown us that he is a real fisherman."



**The Grotesque Human Figure Made by Prehistoric
Mound-Builders of Illinois.**

Baron Mumm, the "Champagne King," Tries to Kill Himself

Astonishing Series of Tragedies and Misfortunes of the Man Who Once Owned the Great Vineyards and Made the Most Famous Wine the World Has Ever Known



In the Effervescent Sparkle of the Bubbling Wine Is Promised Excitation and Care-Free Joy—But the Maker of the Most Famous of All Champagnes "came Misfortunate and Tragedy."

DOWN an almost out in the hospital lies Baron Walther von Mumm, the "Champagne King," one of the unluckiest men that ever lived.

Stripped of his great fortune, his historic chateau in Rheims, France, his millions of bottles of "Mumm's Extra Dry," the most famous brand of champagne in the world, he paid a deposit on a ten-dollar-a-week bedroom in New York City the other day and went for a week-end visit to the Long Island estate of William Von Rath, one of his wealthy friends of happier days who did not know that von Mumm was penniless.

But when the time came to have the butler pack his dress suit, last relic of the golden past, he could not bear to walk out of the atmosphere of wealth and luxury of his friend's mansion and turn the key in that humble little ten-dollar bedroom. What was the use of living?

He answered the question with a pistol shot.

But the "Champagne King" was unlucky in suicide as in everything else; the bullet missed his heart and plowed through a lung which had been punctured by three previous bullets. And so the man who has had everything and lost everything will live, now that he has nothing to live for.

For more than a century the de Mumm family grew rich and powerful in France. Their great vineyards spread around Rheims and their "caves" filled with more and more millions of the Mumm champagne bottles while the chateau stood as the outward, visible sign of the culture and social standing of the family. But the Mumm was originally German, which ruffled a bit among their French rivals, who spread a rumor that Mumm's was not the best French wine.

This propaganda was effective, and threatened to stop the growth of the concern just as it was dominating the champagne industry. The attack, however, stimulated someone in the concern to an act of genius. Less than fifty years ago, just about as Walther was being born, Mumm reached out and with a single master-stroke made a permanent conquest of the world's best champagne market, the United States.

Europe had been slow to realize that America had almost overnight become rich with a brand new crop of big spenders who had gone to school barefoot. These newly-rich wanted the best of everything, understood that champagne was the dinner beverage of Europe's aristocracy, the most expensive drink, the "l'essence" one, as to which brand was the best, they had no idea and could only ask the waiter, who didn't know either.

Into this brand new and thirsty field burst Mumm with one of the first big national advertising campaigns, and within a year every man, woman and child had learned about "Mumm's Extra Dry." The word "dry" applied to a liquid was something not one American in a thousand had heard of before.

After that every boy knew that if he should become very rich and very wicked and wanted to entertain any one royally just what wine to order. Within a year every dining car, steamer, cafe, bar or restaurant of any class at all had to carry Mumm's champagne. Americans traveling in other countries complained to head waiters until they forced it to the top of the wine list in every first class eating place on the face of the globe.

To many people "dry" simply means sour. Had they advertised Mumm's Extra Sour, a not very pleasant suggestion to an untasteful class, that brand would never have captured the American market and, through it, the world.



Baron Walther von Mumm, Who Found His Descent From Enormous Wealth to a \$10 a Week Furnished Room Was Intolerable—and He Tried to End It All With a Pistol Bullet.

Wine connoisseurs have never regarded Mumm's as the finest champagne.

The battle of the bottles was fought and won while Walther was still in short trousers, and when he grew up, he inherited a world-wide champagne empire whose willing subjects paid him tribute and never revolted. The child of fortune happened to be born in Germany, a matter of seemingly small importance, because, like the rest of the family, he used the French "de" rather than the German "von" to indicate his nobility, but it was destined to be ruinous. During the war, Walther went back to the "von."

There were no early indications that fortune would not smile on him as it had on a century of ancestors. Besides a title, a \$20,000,000 controlling interest in the business, a chateau and other broad lands in France, he inherited good looks, a splendid constitution and a keen business mind. Few people outside of France knew or cared who the French President might be, but in any corner of the earth where de Mumm was introduced, faces lighted up with interest at meeting the man who made one of the most universally known luxuries.

When Walther was still in his early twenties there came the first intimation that fortune, which had dealt such high cards to these wine-growers, might hand them different ones. He had to attend the funeral of Fritz Mumm, a distant and obscure relative who killed himself in Frankfurt for unrequited love of Madame Albany Debrigue, who also came to grief later and is remembered as the "butterfly broken on the wheel of fortune." But there are fools and poor relations even in the best of families, so why should Walther see any omen in that tragedy for him?

The young man became well known as an international sportsman. He raced horses, was a pioneer in aviation, and every year for some time entered the balloon races at St. Louis and Kansas City. These balloons were destined to him what he thought would be his greatest happiness, but proved to be two of his greatest disasters—the woman who shot him twice and the woman who married and left him.

Meanwhile the great business grew steadily with two-thirds of its sales in the United States. Walther was the second son, which gave the control of the H. G. Mumm Extra Dry Co., and most of the great wealth of the family



Mrs. Frances Scoville von Mumm, the American Wife of the "Champagne King" Could Not Be Happy With.



View of the Harvesters in One of the Mumm Vineyards in the Champagne District in France, Gathering Grapes for the Famous Wine.

to his older brother, Baron Henri de Mumm. When Henri died Baron Walther stepped into his shoes; as head of the great house.

In 1911, when he was only 27 years old, Baron Walther came to the American balloon races as usual, and there the highly eligible bachelor fell under the spell of Marie Van Rensselaer, a person in some ways quite as remarkable as himself. She was the daughter of a millworker at Easton, Pa., and for a time waitress in a restaurant. At the age of sweet sixteen, Marie left town for bigger things and the old folks began to get dazed glimpses of their daughter in fur and jewels, bearing the title of wife of one rich man after another.

The ex-waitress first became conspicuous as the alleged wife of Dr. Harry D. Barnes, a prominent Baltimore family. Dr. Barnes denied that he had ever married her, but admitted an "affair." Marie indignantly said she would divorce him and apparently did.

from men they have never married.

Marie, during the height of her fame, was often referred to as one of the most beautiful women in the world. At various times she was reported engaged to Baron James D. Rothschild, and the wealthy Walter Law, and William D. Burden, of New York City. She accumulated hundreds of thousands of dollars' worth of furs, clothes and diamonds. She was the Peggy Joyce and Mabel Boll of her generation.

At the time she met de Mumm, Marie was supposed to be the bride of George H. Grant, Jr., of the wealthy Chilean

Mrs. Marie Barnes, as She Called Herself, Who Shot and Almost Killed the Baron von Mumm While He Was a Visitor in Her Apartment in Paris.

family. The "Champagne King" seems to have been smitten at first by the mill-hand's daughter, but sons of old European families don't usually marry without some investigation of the bride's past. While Marie's was interesting enough, it would not quite fill the bill for the mother of future Barons de Mumm. However, she followed him around Europe for some time in what seems to have been a rather one-sided love affair.

Unfortunately, it was December 14, 1912, so close to Christmas that the lady supposed he was calling to make her a handsome present. When he explained what he really had in mind she was disappointed, and showed it by shooting two bullets into his left lung. Marie claimed that he had fired first. Anyway, he had fired her and whatever happened it was hushed up.

De Mumm recovered, and the wedding in London the next year was a brilliant affair. Scoville gave his daughter a \$25,000 trousseau with 100 gowns, and the groom presented his bride with a Paris mansion, and they spent most of their time in Paris and the great chateau at Rheims. Among the thousands of more telegrams of congratulation the Baron received on the eve of his wedding was one from his father-in-law, which said: "But it wasn't really so."

The de Mumm was as happy as a couple with such advantages should be, and were further delighted at the arrival of little Baroness Mary de Mumm. Nowhere was there a cloud on the sky until the war of 1914 broke. While the Baron and Baroness, like everyone else in Europe, were sitting stunned by the news of the German invasion, the government came to the cha-

teau, reminded the Baron that he was an enemy subject and told him to choose before morning whether to accept safe conduct to the German lines or be interned for the duration of the war.

In the morning the Baron chose Germany—and chose wrong. His wife's sympathies were with the Allies, but her duty was with her husband, so with her baby she accompanied him to the frontier. After a few months, however, the situation in Germany became so disagreeable that the mother took the child to Switzerland with her.

Baron de Mumm, refusing to fight the French, was sent against Russia in the cavalry, where he received a third bullet through that lung and again recovered. When the Russians collapsed he was sent to the Western front and transferred into aviation, but this was wiped out by the repudiation of German war bonds and the collapse of the German mark. There remained quite a few thousands in odds and ends in other countries. Above all, the name of Mumm was registered in the United States, its best market, and he could make the new company as high as he wished.

Then came prohibition, making it worse.

Von Mumm, as he now called himself, won a legal fight with the Barons and Mr. Scoville for the custody of his daughter and placed her in an expensive school at Aiken, S. C.

With the remnants of his once great wealth, he plunged in Wall Street and had built up a substantial fortune when the 1929 crash wiped him out. As a broker he was a little and managed to keep his plight from everyone until that fourth bullet in his lung revealed it.

Opening his eyes in the North Country Community Hospital, Baron von Mumm murmured:

"Even death cheats me!"

So, while millions seek exhilaration and care-free joy in its bubbles, the maker of the world's most famous champagne hasn't even the price of one bottle.



Little Mary von Mumm, the Baron's Daughter, for Whose Custody He Made a Fight in the American Courts.

Mystery of the Rock Carvings of the Papuan Cannibals Which They Can't Explain



A Bizarre Lizard-Like Creature With Human Countenance, Carved on a Rock at Lohomunidahu.



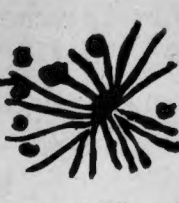
A Painted Design of a Human Figure, Done in Red and Yellow.



Red Image of a Tailed Man, Elongated to Resemble a Lizard.



Evidently the Drawing of a Primitive Character Found at Yertieri.



Scientists Are Unable to Say What This Strange Design Represents.



Whether This Is the Spine of a Lizard or a Likeness of a Tree Is Uncertain, but Colored With Red Paint, It May Be Neither.



A Comparatively Recent Human Portrait Discovered in the Sogeri Region.



A Painted Allouwa, or "Monitor Lizard," the Motif for a Set of Mysterious Carvings on the Rocks at Owanibetene.

CRUDELY carved and painted on the rocks of the island of New Guinea, in the South Pacific, are hundreds of curious characters and designs which are a complete mystery, not only to scholarly scientists, but to the head-hunting natives—the Papuans. F. E. Williams, a British anthropologist, recently made a painstaking study of the paintings and carvings in nine different locations and is forced to admit, even after many talks with the cannibalistically inclined natives, that the meaning of the primitive markings always will be a riddle. He was unable to find anyone to whom the rock carvings have any significance, either as the characters of some aboriginal form of writing, as an historical record, or as the magical symbols of some long-forgotten religion.

More often than not, the Papuans are disinterested in the artistic activities of someone who lived in the jungles of New Guinea no one knows how many centuries ago. They show only mild curiosity in the sites where the carvings and paintings are found and have neither fear of, nor reverence for, the rock carvings. In some cases they have tried to conceal their knowledge of



"Soroputa Rock" at Lohomunidahu, Literally Covered With Crude Etchings.

places where the carvings are to be found, but merely because they do not like to have white men browsing about through their villages. These rock carvings and paintings, which the scientists call petroglyphs, are found in three main regions of New Guinea—in the so-called Sogeri District, in the village of Lohomunidahu, and in the villages of Boianai and Wedau and on the nearby Entrecasteaux Islands.

Some of them resemble the letters H, E, U, X and M. Two others suggest the figures 7 and 8, but most of the strange markings seem to be symbols or pictures. Among these are spirals, concentric circles, crescents, ovals with hairs scratched or painted through them and figures which seem to represent lizards, fish, beetles, trees and men with feathered headresses.

On some of the sites of these ancient art galleries the pictures are hammered and painted on the undersides of natural rock shelters and in other places they are in the open and exposed to the elements. The scientists who have studied these things guess, without a bit of proof to back up their supposition, that the ornamented rock shelters were tribal gathering places, or religious shrines where ceremonies were held.

Some of the paintings, from which the color has faded, are done in red, yellow, in white and in combinations of these colors. Many of the carvings have been painted over in these tints. Here and there a picture is found which is black. What the aboriginal artists used for paint is a matter of conjecture, but it appears that most of the designs were done with crude

brushes and a few of them with the finger tips. The carvings probably were done by pounding the surface of the rocks with sharp stones or with stout pieces of bone. None of these is very deep and most of them, exposed to the elements, are difficult to make out. It is from these weatherbeaten and discolored sculptures that the scientists learned that both the paintings and the carvings are the work of some aboriginal people who lived so long ago that even the oldest of the Papuan natives know nothing about them.

Whether the artistic symbols are the work of long-forgotten ancestors of the present Papuan tribesmen, or whether they were done by a race which once inhabited the island of New Guinea and went down to extinction or moved on to other of the many islands of the South Pacific is a question which probably never will be answered.

Because of the discovery, to date, of nine separate sites where carvings and

paintings have been found, it is assumed that the jungles of New Guinea conceal many more of these primitive and mysterious art galleries. To look for these is far from a safe and simple matter, for the natives are withholding whatever information they may have about them and do not look with favor on intrusions of white men. They do not go in for cannibalism as much as they once did, but they are still a suspicious lot whose chief diversion seems to be the gathering of many heads with which to decorate their hatch-voiced huts. They are skillful users of the bow and arrow, the spear, the stone axe and a peculiar kind of beheading knife with a razor-like edge of bamboo.

Flying Fish Swarm Catalina

CATALINA ISLAND, celebrated as the playground of movie stars, the Pacific Coast mecca of long-distance swimmers and the place where huge sea lions make the rounds of private docks to be fed by hand, recently was visited by veritable swarms of flying fish.

The winged denizens of the deep, lured to the island by a suddenly shifting current of warm water, volplaned ashore in hundreds, and almost every resident of Catalina caught at least one of the beautifully colored creatures.

With the spectacular invasion of the fish came great schools of marlin swordfish, which seem to prefer flying fish to any other food. Professional fishermen and amateurs who fish for the fun of it rushed to their boats to enjoy an orgy of overfishing.

The gossamer-like wings of the flying fish make unusual and attractive ornaments, and at least a hundred feminine residents of the island removed the ostrich plumes from their Empress

Eugenie hats and decorated the hats with one flying fish wing, and in some cases with a pair of the graceful and beautiful objects. Similarly ornamented headgear found its way to Los Angeles, San Francisco and Hollywood.

What Do You Suppose They Are Looking At?



An Interesting Photograph Revealing Emotions of These Boys and Girls as They Stand and Watch—What? You Will Find the Answer in the Very Last Paragraph on This Page.



A Bathing Girl Exhibiting an Excellent Specimen of Flying Fish, Which Phenomenally Warm Currents Have Brought in Swarms to Catalina Island.



WIDE WORLD PHOTO

Steam Baths For Versailles Statues

THE world-famous Palace of Versailles and the more than 300 pieces of statuary which grace its spacious and beautiful park have taken on the new and shining appearance that the place had back in 1704, when the eminent architect Mansart and the equally eminent landscape gardener Lenotre turned the \$18,000,000 establishment over to Louis XIV. After several years of costly work, financed by John D. Rockefeller, Jr., the facade of the palace and every one of the 300 statues has been given a special kind of steam bath, which removed the unsightly grime accumulated in more than two centuries, but which preserved the original appearance of these works of art.

Long before the World War the French Government planned to restore Versailles to its former grandeur, but at that time there was no method of cleaning the palace and the wealth of sculptures scattered through the surrounding grounds which would also preserve the patina which marble takes on with time. The restoration project was abandoned until 1924, when the discovery of a process of cleaning stone with steam which cleaned thoroughly but saved the patina of age—and the philanthropy of an American financier—moved the French Government, then con-

cerned over the condition of its treasury, to go ahead with its plans.

Visitors to Versailles since the ambitious and expensive house-cleaning job has been completed say that the change in the famous relic of French imperialism is startling. Beauties of line and coloring which no living person had seen have been revealed. So new and clean does the place look that it is easy to imagine that one of the Louis has returned to earth to resume life on the princely estate.

Even the theatre of Marie Antoinette, where the most lavish entertainment was staged for her diversion, sparkle and shine, and her private village, set in the most beautifully forested spot in the park, has the appearance of just having been completed by the carpenters and masons laboring by royal command.

In order that none of the restored beauty of certain of the statues and colonnades of finely colored marble may be lost, these objects have been rubbed with a thin coating of beeswax to keep dust and rain from getting at the surface. It is estimated that the rehabilitation of one of the most historically and artistically famous spots in the world will not be necessary again for forty or fifty years, when it will be given another thorough cleaning.



A Filipino Belle Smoking One of the Unusually Native Cigars, Which Are Wrapped in Tough Paper and Strong Enough to Give Pause to the Average Man.

WHAT THEY ARE LOOKING AT.

The Amusing Photograph in the Centre of the Page Shows a Group of Entirely Unselfconscious British Youngsters Watching a Punch and Judy Show in a Suburb of London.

Parrots Really Know What They're Talking About?

"Yes," Says Mr. Daniels, of San Antonio, a Parrot Expert, and He Gives Some Examples of Their Talk Which Are Certainly Remarkable, but "No" Science Insists, Maintaining That the Birds Are Merely Living Phonographs

"Lindy," Proud Papa and Mama With "Lindy" in the Centre.

In an article in the American Weekly recently, it was stated that scientists assert that parrots do not know what they are talking about. They are garrulous imitators but are just as likely to say inappropriate things with no more understanding than a phonograph record which plays dance music at a funeral.

But Mr. R. P. Daniels, the well-known proprietor of the South Park Pharmacy in San Antonio, Texas, feels sure that science is wrong. Mr. Daniels has been a close observer of parrots for many years and is perhaps the only man in the United States who has raised a parrot in captivity. As evidence that parrots know what they are talking about, Mr. Daniels points to an occasion when one of his parrots called him downstairs at one o'clock in the morning to warn him of a fire near the building.

"Almost any parrot owner will agree with me that the attitude of science in regard to these birds is based on ignorance," he says. "I have been situated so as to be able to study them for more than 25 years, both in their wild state and in captivity. They certainly know what they say, both in their own language and in ours, and can express their wants plainly."

"Less than a week ago I happened to go to the office of the well-known cactus specialist, Mr. W. E. Hess, in San Antonio. As soon as I entered, his parrot called out quite plainly: 'Mr. Hess.' The parrot repeated this twice. When Mr. Hess came I remarked that he had a good watchman, and he replied that the bird frequently called him when a visitor arrived and that he also had the rare distinction of always being willing to talk when asked to do so. Giving the command, Mr. Hess said: 'Sing, Bill, show the gentleman how you can sing.' The parrot at once began to sing 'Way down upon the Swanne River, Far, Far Away,' and finished the song with a laugh."

In the home of Mr. Jacob Brandt, in San Antonio, Mr. Daniels says English, German and Spanish are spoken. Mr. Brandt has two parrots, one of them a Mexican redhead which speaks all three languages. When a friend recently called upon Mr. Brandt, he found him busy in the yard and called to ask if he might go out there to see him. The parrot at once answered: "Yes, but don't touch anything."

An Australian gray parrot was given to Mr. Brandt about a year ago which speaks English nicely and is now learning German. This parrot has progressed so far in its study of German that it now calls out: "Guten Morgen, Frau Brandt, Polly wants bread!"

Mr. Daniels calls attention to a Mexican redhead parrot owned by a Mrs. Heebshorn. "Lindy," as she calls it, is a bird of unusual intelligence. When asked, "What's your name?" the parrot replied, "Pollyanna." And when told, "You have a pretty red cap," the bird answered indignantly, "I have a green dress too." And sometimes she extends a wing to display it.

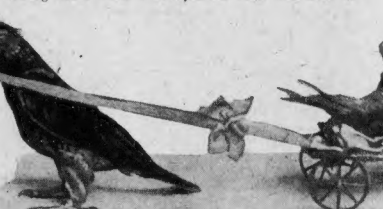
"Mrs. Heebshorn's daughter is our neighbor," Mr. Daniels writes, "and says that when her mother telephones her, as soon as Pollyanna hears the words 'long distance,' the bird starts to say: 'It's that girl. That is mother speaking.' She also says that after a meal has been served and the scraps from the plate have been piled into a dish, Pollyanna looks on and then whistles for the dog, calling: 'Come, Tricky!'"

Mr. Daniels' first experience with parrots began many years ago when a tourist left one with him to sell. It was a young Mexican yellowhead, only a few months old, and soon acquired quite a vocabulary, which later was for her detriment. "Polly likes candy," she would say. "Polly likes candy, give Polly some." And when it was given, she would say: "Oh, that is so nice. Thank you, thank you."

Mr. Daniels did not know then that candy is harmful to parrots, and the



Mrs. Solecki and Her Parrot, "Paula." And Mrs. Solecki Would Never Believe Her Bird Did Not Know What It Was Talking About When It Betrayed the Thief Who Stole It.



Although Science Denies Parrots Know What They Are Talking About, They Really Learn to Do All Kinds of Tricks Such as This.

bird was sick many times before the cause was learned.

"When this bird died, he bought another. It was a young Mexican redhead and selected a bird mostly because it was not a fighter; but he thinks now the more fighting spirit they show the better talkers they are."

This second parrot did not turn out as good talker, so later another was bought solely because she was to outward appearance the exact replica of the first bird. But there all resemblance ceased as she was not even as good at talking as the second one. But these two mated, and contrary to all expectations the impossible happened. They made a nest and hatched and raised a baby parrot which has attracted much attention. The young bird was named "Lindy," as he was hatched the same month that Col. Lindbergh made his famous flight. "Lindy" in babyhood looked oddly like "Cocky Bennett," a hundred and eighty-year-old Australian parrot, now in its second or perhaps third childhood.

This parrot family, Papa Poll, Smokey's Mother, and Lindy, live in a room in the rear of Mr. Daniels' drug store, having a home in an empty packing case. Just now mother Poll has started her second family, has two eggs and is very fussy. A few nights ago, after they had had supper and should have been asleep, she called several times and Mr. Daniels went to see what was wanted, and saw the eggs. Whether it was an effort to call at-

tention to what had been done he does not know, but after the visit she was quiet.

The male bird imitates the newboys selling the morning papers, but never does so after paper time. When Mr. Daniels takes them their breakfast, and says "Breakfast is ready (bread and coffee poured over it), come get your coffee." Papa Parrot sometimes says, "Hot coffee!" but he never asks for coffee at night. Lindy's treat is a cup of tea, and he has learned to say, "Come, let's get some tea," but never asks for it out of time. All three are fond of ice cream and hold a spoon in one claw and eat till the last bit has disappeared. Papa Poll seems to have an extraordinary degree of intelligence, like to listen to the radio programs, stands right at the speaker, but leaves when high notes are played, piccolo or soprano. Long drawn out soft tones please him.

"The most remarkable thing this bird ever did," says Mr. Daniels, "shows an extraordinary degree of intelligence that proves that they can think and talk too when danger threatens. His first experience with fire occurred when lightning set fire to a gas pipe almost under his perch. He came to me and alighted on my shoulder, and when the fire was extinguished, I petted him and returned him to the perch."

"A few months after this, some power wires became crossed and made a very bright light and although it was

one o'clock in the morning he called till I came downstairs to see what was the trouble. As dawn set in the room he ceased calling. He knew that it was safe then. The same hereditary that makes a kitten fear a dog, though never having seen one before, makes him fear a fire bird flying over and he comes from cause to effect. He notes that the big bird is always accompanied by a certain sound, and when he hears this sound he knows the big bird is coming even if not seen, so he sounds his warning call."

"I lived in Tampico, Mexico, many years and spent quite a bit of time hunting in the semi-tropical jungles there and parrots are as numerous as sparrows are with us," Mr. Daniels continued. "They make their nests in palm trees by digging through the bark into the soft center and cutting out enough of the woody fibre to make their home, which is used every year by the same pair. Natives watch them and when the young are about half grown they are taken out and put in crates till enough to ship north have been accumulated. The foothills many miles west of Tampico are the breeding grounds. Being birds of great strength and endurance, they make the trip to the seashore nearly every day, when the weather is good, seldom arriving before 8 or 9 in the morning and always departing long before sunset. They do not roost in trees like other birds, so it is certain that this trip is made from and to their nests."

"Being birds of much intelligence they show it in a most human manner, have a commander who directs the squad, seldom more than a dozen, and a corporal who acts as a rear guard. Orders are given and repeated, and they fly high in the air according to the wind, which they take advantage of just like an aviator. Reaching their destination they volplane to the ground quickly, only to be off again if there is cause for alarm. Constant talking in flight is proof of their having a language and using it. Strange as it may seem, they mate for life, and regardless of the season of the year, they are found always two and two. They are very affectionate to each other, 'till death us do part' is a stern reality with them. Occasionally a lone one is seen with the flock (for they travel in twos), and it is said to be a widowed one."

Mr. Daniels refers to the curious experience of Mrs. Florence Solecki, of New York, whose parrot, Paula, was stolen. Mrs. Solecki notified various "pet stores" of the theft, and being telephoned is from one of these, found a man trying to sell a parrot that looked like Paula. As soon as this parrot saw Mrs. Solecki it shrieked, "Hello, darling. He's a crook, crook, crook." It was the missing Paula exclaiming intelligently. Mrs. Daniels repeats some parrot stories that have been related to him and seem to indicate high intelligence.



When Mrs. Solecki Reached the Pet Store, This Was Her Stolen Parrot, Which Immediately Cried Out: "Hello, Florence, darling. He's a crook, crook, crook."



One Hundred and Eighteen Years Old, "Cocky Bennett," Oldest Known Parrot, Which, in Its Second Childhood, Looks Something Like "Lindy" in His Babyhood.

"Lindy," the Parrot Raised by Mr. Daniels and One of the Few Ever Born in Captivity, When It Was Only a Week or So Old.

A fruit peddler told him of being called from the street by the words, "I want an apple." Going to the place, the woman denied calling, and while arguing about it the voice repeated the request. Looking to one side he saw a parrot in a cage. So picking out an apple he gave it to Polly, saying, "Bird, if you have that much sense you shall have what you want with my compliments."

Repeating this to a neighbor, the neighbor told him that a few weeks ago his friend across the street had a parrot on the front porch. It called so persistently for an apple that he took one to it, and then quiet was restored.

Another story, showing parrot intelligence, is laid in Monterey, Spain. Pablo L. was a Spaniard of means and quite generous in dealing with his unfortunate countrymen who came to him for help. One of the newly arrived (who had never seen or heard of a talking bird), knocked at his door, and a voice from within asked "Who is it?"

"It is I," he replied. "Come in" was the invitation, and on entering the sitting room no one was seen. The voice said, "What do you wish?" The visitor said, "I want to speak with Don Pablo," and then for the first time noticed the bird as the parrot said, "I am Don Pablo, at your service, what can I do for you?"

Scarcely believing his senses, he fled and told a friend that he had seen the devil and talked with him at that house. His friend asked, "What did he look like?" He said, "A green bird with a red cap on his head."

No orthodox science retains the firm opinion that Mr. Daniels is wrong and that the parrots really do not show intelligence in the least, like that which would be indicated by similar remarks on the part of a human being. Like dogs, horses and many other animals, parrots are able to recognize individual words or gestures as signals. They will respond to questions as they have been trained to do, they will recognize the names of persons if they hear these frequently, they will go through tricks like singing on any established signal or well-known gesture, and so on.

Without forcing the facts in the least, this explains, scientists insist, all of the incidents cited by Mr. Daniels, as well as the hundreds of others, some of them still more remarkable, which have been collected by bird lovers in the past. The parrot who recognized the beginning of a long-distance telephone conversation was merely copying what he had heard many times before. All that he had to do was to repeat the words "long distance," or something else, which indicated the actions trained into the bird by his previous experience. Any animal will cry out when alarmed, and this was all that the parrot did on the occasion reported by Mr. Daniels when there was a party given. The bird had heard many times before when Don Pablo did receive visitors.

One ability which parrots undoubtedly do have is that of copying quite accurately things which they observe and of remembering these repetitions thoroughly. Beyond that, scientific students of bird life insist that parrots have no approach to human intelligence, and possess only such intelligence as is common to many animals and even some other birds. For example, the brain is unorganized, the scientific men as the most intelligent of ordinary birds. The parrot is rather a stupid bird.

The New "Free Movement" Exercises

The Four Photographs, Taken at the Laban School of Physical Culture in Berlin, Show Various Phases of the New "Free Movement" Exercises Which Are Now So Popular in Germany. The Exercises Are Supposed to Build Up Muscles and at the Same Time Give Poise and Grace to the Students. Jumping and Posturing Are Combined With Dancing in This New School.

BERLIN, November 4.

IT would seem that German disciples of Terpsichore had devised about all the new "schools of the dance" imaginable. Since the World War they have originated more than a score of radical dance movements, ranging from the so-called "posture school," in which the dancers plant their feet firmly on the ground and perform all their maneuvers with their arms, hands and torsos, to the bizarre and seemingly absurd jumping, which certain masters of the ballet scoffingly describe as the "kangaroo cult."

At the moment, however, dance-minded Germany is all excited about a new theory of the dance which is called "The New School of Free Movement," which has its headquarters in the Laban School of Physical Culture on the outskirts of Berlin.

The accompanying photographs show four pupils of the school going through their strenuous paces in an attempt, in the words of the school's prospectus, "to express vigorous life and freedom by achieving rhythm and harmony of line with the body."

If that sounds a bit hyper-esthetic and artistic, it might be explained that the disciples of "free movement" are trying to build strong, symmetrical bodies, and to acquire vitality by adopting the strenuous movements of the "leaping school," and at the same time to perform these ordinarily awkward movements gracefully. When this is done, say the instructors of the "free movement" school, the individual experiences all the physical thrills of expending his animal energy and the mental poise and stimulation to be had from the conscious achievement of grace and beauty.

Anton Dolin, once an instructor of dancers in the extinct Imperial Ballet, recently visited the Laban school in Berlin, prepared to ridicule the "free movement" idea, as he did the kangaroo-like hops and leaps of the adherents of the so-called jumping dancers. But he did not make fun of this new style of dancing, which he found "strangely graceful as well as surprisingly vigorous."

"I am not yet familiar enough with this sort of dancing to know how it gets its results," said Mr. Dolin, "but I do know that I have seldom seen such beautifully formed and vital bodies. The pupils leap in much the same way that the absurd dancers on the stage whom you call the name 'Lesserin Lema' used to, and

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"I am not yet familiar enough with this sort of dancing to know how it is to be done," said Mr. Dolin, "but I do know that I have seldom seen such beautifully formed and so well-balanced dancers as these. I have seen abroad dancers on the vaudeville stage who are given the name 'Leaping Lena' used to, and still do, but they manage to throw their arms, legs, hands and torso into line."

THE Bureau of Internal Revenue reports that American manufacturers are now turning out cigarettes at the rate of 125 thousand million a year. This would provide more than a thousand cigarettes a year for every man, woman and child in the United States.

To meet this demand, the cigarette factories, working eight hours a day, with shutdowns on Sundays and the usual holidays, must produce 14,092 cigarettes a second, \$45,520 a minute. If the factories were busy night and day, seven days a week, they would still have to turn out 3,963 a second, 237,780 every minute in the year, with no time off for Sundays or holidays.

The worst cigarette "addict" in the world will hardly smoke half a dozen "pills" an hour. If he is a "chain

smoker." lighting a fresh cigarette from the glowing butt of the one in hand, still he will probably take ten minutes for each cigarette. The average smoker takes much longer if he smokes it clear down to the end.

But if one man started out to smoke up this year's output of American cigarettes, and smoked six an hour, day and night, it would take him 2,378,000 years to exhaust the supply. This is longer by probably a million years than man has been on earth. In other words, the first man's four-footed ancestor would have had to start smoking 144 cigarettes a day and kept it up twenty-four hours a day, 365 days a year for a million years before the first human being was evolved, and that first man, who died through lack of food, would have had to smoke continuously until today, in order to consume this year's output.

The average cigarette is two-and three-quarters inches long. If placed end to end, these 125,000,000,000 cigarettes would form a line 5,425,000 miles long. Such a line would encircle the earth's equator 217 times. It would reach to the moon and back eleven times, with 16,000 miles to spare—two-thirds of the way around the world.

If piled into a gigantic cube, without the additional volume of wrappings or cartons, 125,000,000,000 loose cigarettes would form a cube 273 feet high, wide and deep, occupying a space of 20,000,000 cubic feet. Were it possible to form a single cigarette of all the "makings" of 125 billion, this colossal smoke would be 130 feet in diameter and 1,145 feet long, keeping the same proportions as the average "tailor-made" cigarette.

One hundred cigarettes of assorted popular brands average four ounces

in weight. By simple arithmetic, 125,000,000,000 weigh 156,250 tons.

To carry away the year's production of American cigarettes, the roads would be cluttered up with 156,250 one-ton trucks, if these popular delivery wagons were used. Standard freight cars generally hold about 50 tons. It would take 3,125 freight cars to carry away 125 billion cigarettes at once, not counting the weight and volume of packages, cartons and boxes. Such a string of freight cars would stretch for 25 miles.

By testing cigarettes with smoking machines, it has been found that each puff throws out about two and one-half cubic inches of smoke. Allowing ten puffs to a cigarette and measuring the smoke that drifts upward from the burning tip, it is calculated that 30 cubic inches of smoke are thrown off by each cigarette.

On this basis, the total smoke produced from 125,000,000,000 cigarettes would make a cloud of smoke approximately 1,300 feet on each side. The Empire State Building in New York, is 1,248 feet high, so the cloud of smoke would be 50 feet higher, wider and deeper than the height of the tallest office structure in the world.

It has been ascertained by scientists that, in a room without drafts, the smoke arises from the end of a burning cigarette in a prism one-quarter inch on each side. The total length of the smoke train arising from 125 billion cigarettes smoked one after another would be about 930,000,000 miles, or ten times the distance between the earth and the sun.

Scientists have even calculated the heat that would be produced by the smoking of any given number of cigarettes. The heat generated in burning

one pound of cigarette material is approximately the same as that produced by burning one pound of ordinary wood, since both the tobacco and the paper of a cigarette are composed of cellulose, which is the same as the ma-

Assuming that only two-thirds of the cigarette is burned, and one-third thrown away, the total heat produced from 125 billion cigarettes would be approximately 1,760,000,000,000 British thermal units (the ordinary heat unit used in engineering). This would correspond to the burning of about 60,000 tons of coal.

The 46,000-ton ocean liner, the Olympic, before it was converted into an oil burner, consumed 6,000 tons of coal in crossing the Atlantic. So the heat generated by a year's supply of American cigarettes would have driven the Olympic ten times across the ocean.

GERMANY, perhaps more than any other country, is suffering from the current depression which economists, statesmen and bankers are trying to explain and overcome. And in Germany, as in many other countries, the impoverished and unemployed are finding the problems of housing a difficult one.

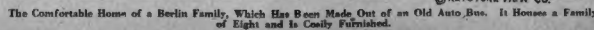
On the outskirts of every German city are colonies of makeshift homes built of stray bits of lumber, packing cases and a strange assortment of material salvaged from the dumps. Not far from Berlin is an interesting community of homes fashioned from condemned street cars which once saw service on the thoroughfares of the capital.

Inspired perhaps by the resourcefulness of the buyers of old street cars, many other families feeling the pinch of depression bought second-hand motor buses which were rotting in the barns of several of the city's transportation corporations and moved them to places where land is cheap.

The photograph at the right shows the comfortable and inexpensive residence which one citizen of Berlin, with a family of eight, made out of a double-decked passenger bus which had outlived its usefulness on the streets.

Out of old lumber he built a porch on the first story, which contains a kitchen and dining room. The second story, reached by the same winding stairs originally built on the vehicle, has been converted into three small sleeping rooms and a sitting-room which commands an interesting view of the valley in which are many such cosy, if makeshift

In the rear of the bus-home is a garden plot which supplies much of the food needed by the family.



CITIZENS of O'Neill, county seat of Holt County Nebraska, believe that they have in their midst the "readingest" young man in the United States, if not in the entire world. His name is Shobert Edwards and he has just turned 18.

Shobert learned to read simple stories at the age of five and has averaged a book a day since that time. Some days he managed to crowd in two books so that, in a period of something more than 13 years, he has gone through about 5,000 volumes.

It would seem that young Mr. Edwards is not one of those persons who rushes through books and forgets the contents a week after he has laid a volume aside. He reads with his brain as well as with his eyes and remembers the gist of most of the literature that has come under his hand.

As proof that his hunger for entertainment and information has added to his mental stature, Shobert has a high school diploma awarded him when he was a lad of 16. His teachers say that he was a remarkably "quick" student and that he seemed to have unusual reasoning powers as well as an extraordinary memory.

"To paraphrase an old adage, a book a day keeps dullness away," says O'Neill's busiest reader, who still reads at least seven books a week and who is just now interesting himself in what he calls "heavy reading."

"Up to a year ago," says Mr. Edwards, "I wasn't especially choosy about my reading. I absorbed everything from fables to adventure yarns and novels of burning love. Now I feel that I'm ready to branch out into psychology, philosophy and scientific works. Probably I shall spice this literary diet with an occasional book of poetry."

What's the Sense of Working?

And Being Paid by the White Man in Beads, Bright Cheap Calicos and Bad Liquor When Nature Provides Plenty to Eat and a Roof to Sleep Under, Free?

—the South Sea Islanders Are Asking Each Other as They Go Back to Their Nakedness and Primitive Habits



What's the Use of Working All Day Long in the Hot Sun for the White Man and Fixing Up Coconuts to Make His Soap and Wearing Uncomfortable Clothes and Hats—When You Can Sit in the Shade All Day Long and Help Yourself to Nature's Fruits, Vegetables and Fish When You're Hungry?

PARIS, Nov. 6. AFTER a test of 14 years, Tahiti has just served notice on France that it has found white man's civilization, clothes, work, vices, virtues, religion and all to be no good and that it wants to return to the simple, natural, healthful ways of its ancestors before these "blessings" were forced on it.

Tahiti is a big, mountainous tropical island, shaped like a figure eight, in just about the center of the South Pacific Ocean. It was a sort of Garden of Eden, where a giant race of happy-go-lucky natives lived without labor, ignorant of sin and went about much of the time like Adam and Eve, naked and unashamed. Then came the white man with his bottle and his Bible, his vices and his virtues, his meddling and his meddling, until he reduced the population from some 40,000 magnificent specimens to less than 7,000 degenerate, diseased remnants. It is in real life and on a bigger scale what was depicted in the famous movie and book, "White Shadows in the South Seas." The demand in the French colony of a resolution adopted by the Agricultural Union of Tahiti, which comes about as close to a popular vote as it is possible in the island. That France will refuse seems almost certain. The French nation and many of its citizens make profits from selling Tahiti the "blessings of civilization," and the effect on other "inferior races" which are being profitably uplifted must be considered.

Suppose the Tahitians are permitted to throw out the white trader and the missionary and having relaxed to the careless, lazy ways of their heathen ancestors, should multiply and be happy and healthy again, wouldn't every other "inferior" race throw out its white boss?

The white shadow first fell on Tahiti in 1797, when Capt. Wallis, in the English frigate Dolphin, discovered the island and saw its splendidly-built inhabitants coming out to meet him in double canoes. Right there the islanders fell into the natural error that all tropical natives are prone to make about the white man. This ship was a thousand times bigger and better than any they had seen and they were practically naked and carried only spears and stones, these strangers were clothed from head to foot and were possessed of all sorts of wonderful things. Therefore, they were superior and ought to be imitated in everything. Now, after more than a century and a half, this reasoning is all wrong, the white shadow is poison and they wish the white man would remove it from what was once a tropical paradise.

A few of the natives were lured away from the canoes aboard the Dolphin and were not, impressed by their size and the Dolphin's guns, but at the sight of the bearded countenance of a goat they plunged overboard in terror. Coated back again, they were given a few nails and beads. Although the Tahitians had never seen a nail or a bead, they began fighting for more nails and beads and the Dolphin's guns had to sink some 60 canoes and even bombarded the shore before it was realized that the white man was invincible. Only eight months later Louis Antoine de Bougainville, with two French warships, rediscovered Tahiti, and this



A New Guinea Native, Uncomfortable in the White Man's Shirt, Collar, Tie, Coat, Belt, Trousers, Silk Hat and Sword—But With Bare Feet.

time there was no need for the thunder of guns. The Frenchmen spent ten happy days ashore, curing themselves of scurvy. Though all was pleasant and polite, the victors paying for their supplies and entertainment with a few trinkets, they nevertheless left behind something far more deadly than the results of Wallis' bullets—a virulent social disease, like so many others that the white man was to introduce, unknown in that happy island before.

Until that time the island had been governed by a set of feudal chiefs, like little barons, who ran things without much friction, but the coming of the big ships set them all to warring. The feudal baron who controlled the area around the harbor in which a ship anchored got all the precious beads, perfume and mirrors given in trade. As soon as the ship left the other barons stripped him of his treasures and fought among themselves.

Finally sixteen missionaries from H. M. S. Bounty, who had turned pirates, settled in Papeete and took a hand in the warfare long enough to make Pomare, the Papete baron, "King" of the whole island. Probably the pirates would

soon have murdered the man they had made monarch, if just then another British warship had not dropped in for the purpose of catching and hanging them.

Up to that time such a thing as steady, daily toil had been unknown in Tahiti because there was no reason for it. Great groves of bread fruit trees circled the shore, a meal to be had for the picking. For variety one man could climb the mountainside a little way and bring down enough wild plantains to feed a hundred. Streams were full of big prawns, fish to spare, and the salt water swarmed with all sorts of sea food and there were bananas, coconuts and other fruits for desert.

There were no professional tillers of the soil or professional fishers. The young men hunted and fished more for sport than necessity. In the rainy season the men amused themselves with wood carving and the women with

Mr. Darling, a White Man, Arrived From the Outside Civilized World, Threw Away His Hat and Clothes and Lived the Simple Life as the Natives Used to Live, on the Bounty of Nature, Which Set Him to Thinking Whether, After All, He Was Not Doing the Sensible Thing.

making grass mats. The pigs and chickens fed themselves. The climate was so even and balmy that the only houses needed were something to keep the rain off—a thatch provided by the fronds of the palm trees—and there was really no necessity for clothes at all.

Most of the time was therefore spent in loafing and loving. In the white man's cold home, loafing is a serious vice. Only by steady, hard work can the human race support itself in the so-called temperate zone. In the tropics not only is there no reason for all this hustle but anyone who attempts it persistently does not live long. In other words, it is industry that is the vice and lazes the virtue in Tahiti.

Then came the trader ready to sell the native all the material blessings of civilization and the missionary with the spiritual ones. The native wanted everything because they must be as superior as ships and guns were over canoes and spears. The traders' 100-proof rum was quite evidently better than the mild native beverages—a few drinks proved that. The fish and game were so plentiful that the Tahitian's stone-age weapons kept him easily supplied, but now he must have expensive firearms and nets and be able to exterminate wild life. But how were these things to be paid for?

"I'll show you," said the trader. "Get out and hustle." And they did. Instead of just enough coconuts for food and drink the poor native was induced to sweat in the deadly sun, climbing the palms and bringing them in by the ton. They would go away in ships and later a little would come back in the form of a perumed cake of soap.

Tired of catching nearly enough oysters to eat, the native now dove all day, in deep water where the pearls were likeliest to be found, and kept it up till he became deaf and finally lungs and heart gave out. Meanwhile the beachers swarmed with flies and reeked with the stench of the rotting shell fish after they had been searched for pearls.

Every year appeared new diseases.

Next came the missionaries who at first could get no hold at all. The missionary said it was wicked not to wear clothes, but did not make sense to the native. The trader had taught him that working hard collecting things to trade at the market was very noble but now the missionary said it was wicked to work at all every seventh day. Often that seventh day was the only one in the week when it was cool enough to work safely or the time when it was safest for diving. The trader backed up the clothing idea, offering cheap calico and cast off clothing from Europe.

But as long as the "King" and his barons thought the old gods were good enough, there were almost no converts. Pomare II, however, devoted himself so much to the trader's rum that he neglected his subjects, who rebelled and drove him into exile to the little neighboring island of Raiatea. Here the missionaries worked on him and he saw the light. His native God had failed, the white man's God would put him back on the throne. And it did, assisted by the white man's firearms.

They not only forced him back on his throne but baptized Pomare and showed him how to rule right. Up to that time there had not been any gods because the natives preferred to travel by water. But the missionaries wanted them and now they got them through the following ingenious code of criminal procedure, cited by Dr. Alfred Goldborough Mayer, of the Carnegie Institution of Washington, in Popular Science magazine.

"Working on Sunday, first offense, to build a road 500 feet long and six feet wide."

"Working on Sunday, second offense, to build a road 600 feet long and six feet wide."

"Bigness for men, a road 240 feet long."

"Bigness for women, to make two floor mats."

"Drunkness in men, a road 80 feet long."

"Drunkness in women, two large mats."

"At the same time," writes Dr. Mayer, "the adoption of Christianity contributed to the increase of certain

Before the White Man Came and Offered Trinkets in Exchange for Labor, the Natives Spared Their Fish When They Wanted Them—and the Fish Are Still There in the Waters as They Always Have Been.

Tahiti, in its isolation, had been like a sanitarium, quarantined from all the pestilences that Europe and Asia had been breeding for thousands of years. Now the white man brought one germ after another and they went through the population like a forest fire. Other ailments came from working in a climate where man is not meant to work. But for each new sickness the trader sold a new patent medicine. And though the population dwindled, business boomed.

Then came the "native man," who astonished them. He was white and yet neither missionary nor trader. He wanted neither to sell them anything nor meddle with their morals and customs. This incredible white man built himself a little shack, laid out a small plantation of bananas, coconuts and breadfruit, took off his clothes and proceeded to become lazier and nakeder than any native. Darling wisely refused to criticize the trader, missionary or the French Government, which now rules through a governor of the island. But his example spoke louder than words.

Here was a white man who had left a northern white country to live the way the South Sea Islanders wanted to live and their ancestors had lived. It started the natives doubting. The white men was all-powerful but was he all-wise?

He could be that the white ways, good in the cold north, were no good in Tahiti. Perhaps work, instead of being the heaviest he had called it, was really the white man's curse, that went with long hair and a white shirt. When little brown Japan thrashed huge, white Russia their doubts increased and the World War added to them, but the final straw was the depression. When they heard that the white man's banks were still full of money, that his warehouses were bursting with food, automobiles and every other kind of goods and yet that most of the people were poverty-stricken, the Tahitians said that settled it.

"The white man is a fool," they agreed, "he has not only worked us to death but now he has worked himself into ruin. Work is a wicked idea. Let us throw the white man and all his works out and hereafter do nothing but what that can be put off until tomorrow. If it is wicked to work on the Sabbath it is wicked to work any other day."

fatal diseases, notably tuberculosis, through the enforced wearing of dirty European clothing, and the too hastily effected efforts of European teachers to develop the "family tree," thus causing the natives to huddle together in unsanitary, ill-ventilated shanties of European pattern. The listlessness and loss of interest in life resulting from prohibition or distaste of old games, arts and crafts, also led to clandestine immoralities and drunkenness, and in many groups the population has declined steadily and is still declining. In the Marquesas from 20,000 in 1842 to about 3,400 in 1911.

"As the Tahitian proverb said: 'The hibiscus shall grow and the coral shall spread out its branches, but man shall cease.' Well might the Samoan father pray to Tangaloa, 'Drive away from us sailing gods (white men), who bring disease and death.'"

The native was not entirely a fool. He saw that he was overworked, sick, wretched and dying off rapidly, trying to play the white man's game. The trader assured him that the only trouble was that he had not quite learned the game and when he did everything would be all right. The missionary told him it was because he was so full of sin and iniquity that God was punishing him.

Then came the "native man," who astonished them. He was white and yet neither missionary nor trader. He wanted neither to sell them anything nor meddle with their morals and customs. This incredible white man built himself a little shack, laid out a small plantation of bananas, coconuts and breadfruit, took off his clothes and proceeded to become lazier and nakeder than any native. Darling wisely refused to criticize the trader, missionary or the French Government, which now rules through a governor of the island. But his example spoke louder than words.

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Marry a British Lord

Interesting Romance of Adele Astaire, American Musical Comedy Dancer, Who Will Marry the Son of the Duke of Devonshire, One of the Wealthiest Men in England and Owner of Castles and Estates That Rival the King's Royal Palaces

Miss Adele Astaire, the Future Lady Charles Cavendish, in Street Costume.

ADELE ASTAIRE, American dancer, is to marry Lord Charles Cavendish.

This will at once make her Lady Cavendish, a member of one of the oldest, richest and most influential families of England's nobility. But that is not all. With luck, some day, it automatically elevates her to the title of Duchess of Devonshire.

To become a duchess is the loftiest altitude of English nobility to which a woman can hope to ascend. Above that exalted rank is only the thin stratosphere of royalty, into which even the balloon of matrimony cannot carry a commoner.

With many proud titles go little but debts and the dubious pleasure of knowing that broad lands and historic buildings once belonged in the family when they say better days. But in marrying Lord Cavendish, second son of the Duke of Devonshire, Adele is getting into the family circle of one of the three richest nobles of England. Many actresses, both English and American, have gaily graced the altar with members of the nobility, sometimes with satisfactory and permanent results but usually followed by speedy and spectacular divorce. Aristocracy views these matches with horror for two reasons. First, it is usually heard that the bride is no better than she ought to be, and the lordling she weds is a generally a low-grade, black-sheep specimen of an aristocrat. Both deserve nothing better than they get, but such alliances blow up in a series of scandals which hurts the prestige of serious-minded, respectable members of the nobility.

Here is an American girl of the stage, not only an actress but a dancer, which is considered even more irresponsible, picking one of England's most-hereditary plumes, a plum that may grow into the choicest one of all and yet aristocracy is not rolling its eyes or gnashing its teeth, for this alliance is different.

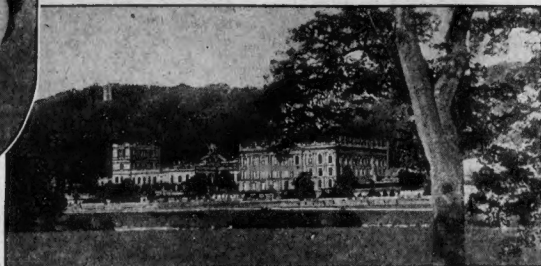
The little dancer bears a spotless reputation. She has nothing happens without reason there is one for this. Miss Astaire is one of the very few star dancers of all times who have for a dancing partner their own brother.

Therefore her partner, instead of being a perpetual menace to her morals and a cause of jealous squabbles, is a chaperone and protector. Incidentally her brother Fred is a great friend of Lord Charles Cavendish.

Equally important, the Cavendishes are a family celebrated for its hard-headed common sense, with surprisingly few black sheep and their young men usually pick aristocracy as a credit to the family. Lord Charles is no exception. A serious, intelligent youth, it is likely that he can be trusted not to take a wild-eyed bride, British aristocracy thinks.

One of the best indications as to whether an actress honestly means to be a real wife and mother is to flout a title and coat-of-arms before her friends, is whether she likes the idea of retiring permanently from the stage. Unless her husband is unable to support the family, the better circles of English nobility see no excuse for a wife continuing in the theatre. They consider it "exhibitionism" and that it reveals that she is already looking around for her next mate. It is significant that Miss Astaire, in announcing her forthcoming marriage, also said that she would leave the stage forever. This is as it should be. English thinks, from the queen down, and therefore the future Lady Adele will be welcomed.

Before Lady Cavendish can become a duchess after the passing of the present Duke, her future brother-in-law, the Marquis of Hartington, and his two little sons must also die. But an older brother and two children in the way of an inheritance, by no means makes it impossible. History is full of examples where large families have



Chatsworth House, Derbyshire, Principal Seat of the Duke of Devonshire. Noted as the Most Magnificent House in England and the Most Loosely Maintained.



Lord Charles Cavendish, Second Son of the Duke of Devonshire, Who is Engaged to the Eccentric and Original American Dancer, Miss Adele Astaire.

been wiped out, causing titles and estates to pass to some obscure and distant relative who had never dreamed of such a possibility. If and when Lord Charles comes into the title of Duke of Devonshire what will his American dancing duchess enjoy with him? It will be plenty.

The Duke of Devonshire owns more magnificent houses than any man in England. They include Chatsworth House and Hardwick Hall, Derbyshire; Bolton Abbey, Yorkshire; Castle Waterford, Ireland. He owns 136,000 acres of land. Chatsworth House is generally recognized as the most magnificent and costly house in England, and Hardwick Hall as the most picturesque.

It is said that it costs the Duke \$300,000 a year to keep Chatsworth House open and in good repair, with a full staff of servants. A great deal of this money goes for the grounds, and this charge must be met every year. Very often the Duke does not live in the house for a whole year in order to reduce expenses. Even then the general public are admitted, and they visit the house to the number of 84,000 annually. It costs \$5,000 a year to keep the windows supplied with putty. A great many of them have a gilded heading.

The carved wood in Chatsworth, which is by Grinling Gibbons, the most famous artist in this line, surpasses anything in England. All the rooms on the second floor are paneled in oak and other fine woods from end to end, carved with extraordinary richness. The state dining room, which measures 50 feet by 30 feet, is perhaps the most magnificently paneled. The carving consists of flowers, wreaths, fish, dead game, cherubs, etc. In two of the

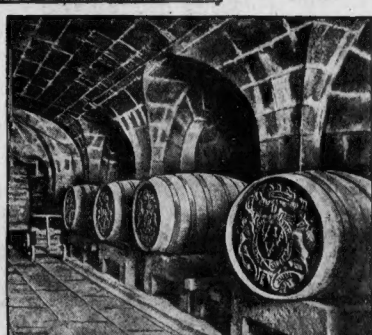
Lismore Castle, the Irish Residence of the Duke, which Rivals in Romantic Beauty His English Tudor Residence, Hardwick Hall.

An old writer notes that a wooden pen was carved with such delicacy by Gibbons in one chamber that it could not be distinguished from a real feather. The architect of the house was the noted Sir Christopher Wren.

Hardwick Hall is considered one of the most exquisite examples of Tudor architecture in England. Its old stone-work is somewhat dilapidated, but only adds to its beauty, and it is an ideal home of romance. This beautiful building was brought into the Cavendish family by the famous Bees of Hardwick, who married one of the early dukes. Bees is an example of how well the Cavendish men chose their wives. She was a great heiress when she entered the family but far from being just a dumb money-bag, Bees showed a genius for picking up more property by shrewd trades and bargaining.

Her father was a brewer in Omaha until prohibition killed the business and sent her on the stage. Therefore she will certainly be fascinated by the beer cellar in Chatsworth House, which is perhaps the highest home-brewer in the world and certainly the most eminent. As England is still free from prohibition, the Duke could buy the best beers on the market without breaking the law, but he considers the best is not as good as he can make himself.

The history of the ancient Cavendish family abounds in romantic stories. One of these, which is particularly interesting to Americans, relates to the beautiful Elizabeth, Duchess of Devonshire, wife of the fifth Duke. She is the Duchess who was the subject of the celebrated portrait by Gainsborough which was mysteriously stolen from Agnew's Gallery in London and remained lost for nearly twenty years when it was recovered and returned



The Beer Cellar in Chatsworth House. The Duke Makes His Own Beer, Which is Kept in Great Barrels Bearing His Coat-of-Arms, and the Casks Are Used Over and Over Again.

by the American gambler, Pat Sheedy. His story of how it was stolen and hidden on a yacht is an interesting romance by itself. The picture is now the possession of Miss Anne Morgan. The hat worn by the beautiful Duchess was an ideal which women strove to copy for many generations, and although it is rather out of fashion just now, it will probably come into favor again.

An extraordinary story has been repeatedly told about the Duchess Elizabeth. She was originally Lady Elizabeth Foster, and was the second wife of the Duke. His first wife, Georgina, Duchess of Devonshire, became the mother of a girl, her only child, in Devonshire House, London. Lady Elizabeth Foster, who was a widow at the time and living in the same house, became the mother of a son at nearly the same time. The Duke was, of course, anxious to have an heir of his title, and the story is that he exchanged the boy for the girl and brought him up as heir to the dukedom. Soon afterwards his first wife died and he married Lady Elizabeth Foster.

The boy became Duke in the course of time, but it is a peculiar fact that he never married. This was rather remarkable in view of his wealth and prominence, bachelor dukes being almost unknown at that time. The explanation given of this is that the nephew of the previous Duke, who was next in line to the title if the Duke had no son, learned of the substitution of the male baby for the girl. He went



The Fiancee of Lord Charles Cavendish—Miss Adele Astaire, the American Dancer, in an Eccentric Dance.

say which placed William III. of Holland on the throne. William, of course, told the Duke to forget the fine.

Most of the present Duke's great income is derived from real estate in the heart of London. Adele can walk along many precious blocks, indicating by her name as Devonshire Square and Cavendish Street, with the thrill of knowing that some happy day the vast revenues from these properties will be hers to share—maybe.

Until recently the Duke owned the largest private house in London, Devonshire House, Piccadilly, which was the greatest centre of social life in the days of Queen Victoria and Edward VII. It was a very plain building, but required dignity from its size and the large open space around it. It was regarded as one of the most typical and permanent features of London life, like Buckingham Palace, but, post-war taxes proved too heavy for the Duke. He sold it for \$3,000,000 and it was pulled down and its place taken by a great block of apartments and stores.

Adele and her brother were first recognized on Broadway during the 1917 run of "Over the Top." Then they went to London and were a hit in "Stop Flirting." So much so that London society took them up. Reading of this, Park Ave. opened its doors also on their return to New York. It was in a Park Avenue mansion, five years ago, that Lord Charles and his future wife met. After serving a financial apprenticeship with the Morgan house in Wall Street, the young lord returned to England, but the couple corresponded, met surprisingly often, and two years ago, Adele visited him frequently, apparently impressing them favorably.

Lord Charles Cavendish is one of the best customers of the trans-Atlantic telephone and on one of his frequent talks urged Adele to stop denigrating that they were engaged.

The wedding is indefinite because it must wait till the play she is now appearing in finishes its Broadway run. So much so that he has her last appearance on the stage and she will never need to look for another job, she loyally refuses to "run out on" her management even to marry her son. Is the Cavendish family annoyed at having to play second fiddle to a show? It is not. Such loyalty implies that she won't run out on them or their traditions.

But what about running out on brother Fred? That is a serious problem until last year, when Adele decided that Fred had become so interested in Marilyn Miller that she ought to have her for a partner.

Miss Astaire was engaged for awhile to William Gaunt, a young Englishman who was wealthy until he went bankrupt in some theatrical ventures with the Shuberts. She has also been reported engaged to William B. Lewis, former husband of Princess Xenia of Russia; John Hay Whitney, the heir to John Hay Whitney's \$200,000,000 and to his cousin, Cornelius Vanderbilt Whitney.

Again Showing Thousands How to Turn Idle Moments into Money

How Fortunes Await 27 Original Ideas... Hints on Making Money at Home... Things to Be Made for Profit and Pleasure. All Explained in December Issue of World-Famous Magazine Now On Sale at Newsstands Everywhere.

A TREASURE house filled with money-making ideas. That is what people have found one unusual publication to be. That publication is Popular Mechanics magazine. Executives of big concerns have examined its pages month after month and traced fortunes to the ideas they found. People looking for money-making hobbies or ways to turn spare time into cash have read this unique magazine and found the answers to their problems.

And now at a time when millions of people are searching for ways to increase their incomes, to raise funds for a new car, a new home, etc., Popular Mechanics is bringing out an issue bristling with definite money-making suggestions and hints for everybody. This is the December issue. It is now on sale at newsstands everywhere. Just listen to a few samples of what it contains:

There is one article called "Fortunes to Be Made from New Ideas." Until you have read this article you would never dream of the simple little things for which big industrial concerns are willing to pay enormous sums of money. But, strangely enough, it seems that the biggest rewards are paid for simple everyday things that ordinary people can use. For instance, the man who invented the common pin received more than a million dollars for his efforts. The man who invented the collapsible collar button has received \$20,000 a year royalty for a long time. Locked up in your brain may be an idea which is a fortune to you. Twenty-seven suggestions are made in this enlightening article. Perhaps you are more interested in finding a way to make money at home, or to turn a few hours a day into cash profits. Ideas of this sort are particularly emphasized in December Popular Mechanics.

A new and unusual instrument that appeals to everybody instantly is surprisingly easy to make. A new way has been discovered to turn a common waste material into fuel which might bring you a fine income. Maybe you would like to cash in on the present craze for rock gardens. Possibly you can discover a

way to pick up pin money with your camera—by taking unusual trick pictures that few people know how to make.

If you are a farmer or live in a rural community, you may be interested in the article which is bringing other people like yourself a fine profit.

Or if you are handy with tools, like to make things, you are sure to find a number of articles with complete instructions for making things that can be disposed of at a handsome profit. It is difficult to tell what particular ideas may interest you most, but it is safe to say that regardless of what type of mind you have you will find some ideas in December Popular Mechanics that can be converted into gold. Millions read Popular Mechanics regularly—that's a tip for you. Brander's money-making

ideas like the ones mentioned, the December issue of Popular Mechanics announces three great contests with awards paying \$10,000. There is nothing to buy or sell in these contests, no puzzles to work. A fortune is being offered for things that any average person can do. Be sure to get your copy of December Popular Mechanics immediately, as this special announcement is reaching nearly one million families and the unusual character of the December issue will cause it to be sold out very quickly.



Mush Linbeck, Popular Mechanics editor, is the man who has a radio on his desk, and good his way through school.



Simple ideas often bring fortunes. The man who invented the common pin is said to have received more than a million dollars. The inventor of the collapsible collar button still gets \$20,000 a year royalty. How fortunes await other simple ideas is explained in the new Popular Mechanics.

\$10,000.00!
IN PRIZES!

Three great contests are announced in the December issue of Popular Mechanics. With the exception of three prizes, which offer free trips besides cash awards, all of the prizes are to be given in cash. There is nothing to buy or sell. No puzzles to solve. Duplicate prizes will be given in case of ties. These contests not only offer a veritable fortune in cash prizes but are also educational and instructive. The December issue of Popular Mechanics is now on sale at newsstands everywhere. Buy a copy or borrow one from a friend so that you can get full details immediately. You may enter all three contests if you wish. No employees of Popular Mechanics or members of their families are eligible. Anybody can enter. Neither literary ability nor educational qualifications are necessary. So start working immediately to get your share of the \$10,000 awards. It is not necessary to purchase a copy of the magazine to enter these contests. You may consult a copy at a public library or anywhere you wish.

178 Pages of Startling Information

For Motorists, Radio Owners, Home Owners... Money-Saving Ideas... Startling True Stories of Adventure and World Events



The "Super Duck" is a new kind of airplane being constructed in Germany for ocean duty. The passengers live in the wings. See the details in December Popular Mechanics.

Money-making ideas are but one of many topics of interest that fascinate readers of Popular Mechanics. Like a veritable treasure chest, it unfolds a panorama of "what's happening" throughout the world.

...and the world's latest developments. Automobiles, airplanes, radios, and many other things are explained in detail. The December issue of Popular Mechanics contains a complete guide to the latest money-making ideas. It is a must for every man, woman, and child who wants to get the most out of their spare time.

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Getting More Out of Your Car Among the many items of interest to motorists is an invention that keeps motor oil constantly purified as you need change it only once in 1000 miles. Automobiles start your motor easily in the coldest days. Still another reveals a little-known cause of faulty ignition. All clearly explained in Popular Mechanics, December issue.

Your Radio Popular Mechanics is the "radio fan's friend." On one page alone in the December issue are shown nine different ways to solve



New automobiles define their own motor oil and need it for 1000 miles. Will this discovery revolutionize automobile maintenance? See page 94 December Popular Mechanics.

radio problems. A whole section of pages is devoted to radio in each issue.

Money-Saving Home Conveniences: You will be surprised at the many things you can make at home with discarded materials—conveniences for kitchen, garage, basement, that often save time and money. One idea in the December issue may save you many times the price of Popular Mechanics.

Popular Mechanics December issue is now on sale at all newsstands. Get your copy early before they are all sold.

This picture represents one of the many money-making ideas that are explained in the December issue of Popular Mechanics.



NOW ON SALE AT NEWSSTANDS EVERYWHERE

\$10,000 IN PRIZES
PAGES OF INFORMATION



Science's Newest Discoveries About the Worms

Finds One Longer Than a Whale, Another With a Brain at Each End, Worms That Carry Their Own Search-Lights, Worms You Can See Through Like Glass, and Other Strange Members of the Earth's Biggest Family

A Microscopic Drawing of a Nematode, a Worm Which Inhabits Human Blood and Liver and Which Has a Head Something Like the Mythical Dragon.

SCIENCE now recognizes a whole world of animal activity just below the surface of the ground which our grandfathers never dreamed of. Here live minute creatures, grubs, various insects which divide their time between underground and surface—and worms. But the greatest number of these citizens of the world beneath our feet are worms.

The worm is, except for the bacteria, the most numerous of living creatures on or in the earth. Although the worms in literature the symbol for something lowly and unimportant, yet it is a worm that is the longest creature in the world. This is a kind of sea-worm which reaches the truly remarkable length of one hundred feet—longer even than the longest whale and, presumably, the longest animal now alive on earth.

There is a worm that has two brains, one at each end of its body, instead of the one brain that human beings have to get along with.

It was an ancient worm, evolutionists believe, that made the greatest of all animal inventions, that of the flexible backbone. And modern worms provide some of the best examples in nature of idealism, for there are several kinds of sea-worms, the females of which allow their own bodies to die and dissolve so their children may have ample food.

The longest American earth worm never measures more than about a foot. A six inch is the average length. But in the Australian region of South Gippsland live giant earth worms that grow to six feet long, lay eggs three inches in diameter, and make loud gurgling noises as they retreat into their burrows when someone comes along and tries to capture them.

These are just a few of the interesting facts which science has recently discovered about worms.

Human farmers would have a hard time of it were it not for the myriads of earthworms which live and work continually in the depths of the soil. How important they are to agriculture was brought out when, after the disastrous Mississippi Valley flood a few years ago, Mr. A. J. Mason, a farming expert, told the House of Representatives at Washington that no estimate of the cost of rehabilitation of the section could be made until it was known whether the earthworms had survived, at least in sufficient quantity to render the soil fertile. If they had not remained barren until Nature or man had restored these nocturnal little creatures. Mr. Mason estimated that the farm lands of the United States contain 1,000,000,000,000 earthworms, about 100,000 for every human resident.

The worms include some of the smallest animals as well as some of the longest; for no animals except the one-cell creatures called amoebae are any smaller than the tiny, worm-like nematode, which a powerful microscope will show by millions in every acre of soil and in the mud of every pond or stream. A few of these nematode worms have learned how easy it is to live at the expense of other animals, and have become parasites on other creatures. One of these is the hook-worm, which attacks man and which is said to cause many diseases and suffering in the tropics than any other single enemy of humanity, even the germs of malaria or yellow fever.

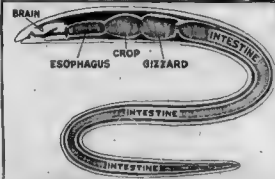
Another member of the tiny nematode tribe is the microscopic worm which causes the disease known as trichinosis, acquired by eating infected pork which has not been well cooked.

One source of pork, it has been calculated by Professor R. S. Dill of Yale, may contain as many as 80,000 worms. An infected human being may have as

The Cobra Nematode—Another Microscopic Creature Which Has a Fang in the Roof of Its Mouth and Batters of Small Teeth for Chewing and Grinding Plant Roots.

A Photograph of Luminous Worms Found on the Maine Coast. Their Light Is of Use to Them in Finding Food, but Also a Source of Considerable Danger, as Is Revealed by the Crab Which, Attracted by Their Glow, Is Just Conveying One to Its Mouth.

A Worm Whose Body Is So Transparent That Its Internal Structure Can Be Plainly Seen Under the Microscope Without Cutting It Open.



Anatomy of the Farmer's Best Friend, the Earthworm, Which Makes the Soil Fertile by Passing It Through Its Body and Digesting Dead Leaves and Other Organic Matter in the Soil.

the nematode eggs shall be deposited on these topmost leaves so that some grasshopper will come along and eat them. Accordingly, the mother nematode crawls up the plant stems, Dr. Cobb finds, until the dim eye-spots inside her transparent body perceive the difference between the blue light of the sky and the greenish light under the leaves. There she lays her precious eggs, on the topmost, sky-lit leaves, where they will have the best chance to be found by the grasshoppers.

The worm that has two brains, one at each end of its body, belongs to the extremely long and slender class of hair worms. Probably the two brains are necessary to enable this creature to cope with its environment, for the intermediate part of these worms' bodies are so long and thin that nerve messages may have some difficulty in getting through from one end to the other; like the difficulty of the engineer at the front of a long freight train in communicating with the conductor in the caboose at the rear.

Another curious worm brain is that of some varieties of the "rubber" or "cucumber" worms, when form the class to which belong the

longest of all worms, the hundred-foot giants already mentioned.

These bootless worms also are long and slender, although not quite so thin in proportion as the hair worms. They live mainly along the seashore, where the flattened fragments of their bodies often are picked up and suggest the popular name of bootlace. They are voracious flesh eaters and capture their prey by an organ called a proboscis, which is one of the most remarkable contrivances in the long list of Nature's weapons.

Near the worm's head there is a small sucker pit which contains this proboscis, like the rubber tongue of the toy dolls that stick out when the doll is pressed. In just this same way the worm's proboscis may be turned inside out by the animal and thrust toward a foe or an animal intended for food. At the end of this inflexible projection is a small hairy spike and a poison gland. The luckless swimming creature that comes near enough to be struck is paralyzed and eaten, for these worms have enormously distensible mouths so that they can swallow other creatures far thicker than the worm itself.

And just as the nematode worms have their brains in a ring surrounding their gullets, so these bootlace worms have their brains next to this most important organ in their lives, their proboscis. A bootlace worm might be described as an animated, intelligent poison dart, followed by a hundred feet or so of tail.

The variety of brains in the worm part of creation is evidenced, once more, in the curious creatures called flatworms, sometimes to be found under the flower pots in wet greenhouses or under decaying leaves and similar vegetable debris at the edges of

A Fringed Sea-Worm Preparing to Attack Its Enemy, the Ribbon Worm. From a Painting by Wm. Fowler, Naturalist and Marine Artist.

succeeded in training the worm's tiny brain so that the light impulses made the worms stand still instead of move. Evidently the light was recognized by the worms as a signal that a lurch was coming, so that they learned to play dead when they received this new stimulus instead of waiting for the ordinary one.

The earthworm, one of the most highly developed of the worm family, also is a creature that has been transformed by similar scientific tests. Earthworms possess, also, a considerable number of "eyes" in the form of a nerve cord, like the human spinal cord, runs the entire length of the worm's body and controls that body's manifold movements as the worm pushes itself through the soil by means of the tiny, almost invisible bristles which project from each body segment and provide a purchase on the particles of soil. This spinal cord of the earthworm, however, is on the front of the worm's body instead of the back, as though a man had his backbone down the middle of his chest.

This fact has made much trouble for the evolutionists who believe that some marine worm not unlike the modern land earthworms was the original ancestor, millions of years ago, of the world's first backboned creatures and ultimately of man. If the original worms that invented the backbone had their spinal cords down their chests, how could it happen that man and other modern backboned creatures have that column down their backs? The answer which the evolutionists have found is that some condition of life on the sea bottom when the original spine was being invented, or shortly afterward, must have reversed our worm ancestors, just as a few fish and other creatures are known to have been reversed by similar conditions.

Some worms are so transparent that their internal structure can be viewed perfectly through the body wall, thus cutting the creature open. Along the Maine coast are found worms of this kind that they are easy prey for crabs and other enemies, but they also are able to escape their predators and feed on otherwise inedible little creatures.

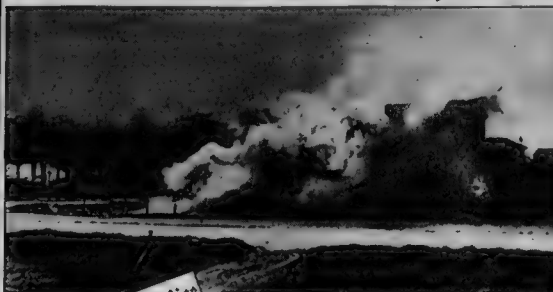
Every time that a scientific expedition goes out to dredge up deposits from new places in the sea a whole new series of marine worms is likely to be discovered. Probably thousands of kinds exist in the ocean and have never been found by scientists. Among them perhaps, awaiting discovery by some lucky naturalist in the future, is some form which will cause a little to this important step in the evolution of the world's present family of creatures is believed to have begun the development of all the backboned creatures that now exist and dominate the earth.

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11

Secrets of the Surete, The

Mr. H. Ashton-Wolfe, Formerly of the Hong Kong Police



Préfecture de Police
SECRETARIAT GENERAL

Photograph of Burning House in Which Mr. Ashton-Wolfe and His Colleagues of the Paris Surete Were Trapped. This Photograph Was Taken at Dawn by a Gendarme Inside the Grounds.

Mr. Ashton-Wolfe in Street Clothes While Working as an Assistant to the Famous Dr. Bertillon in the Technical Laboratories of the Paris Secret Police—And Mr. Ashton-Wolfe Disguised as a Low Type of Asiatic Half-Breed. In This Make-Up He Entered the Secret Haunt of the Chinese Criminal Society Without Suspicion.

By H. Ashton-Wolfe

Former Assistant of the Famous Dr. Bertillon, of the Surete (French Detective Police)

SYNOPSIS OF PRECEDING CHAPTER

Maurice Lebrunau, a banker, was found stabbed to death on the Paris-Ventimiglia express train while the French detectives were trying to run to earth an elusive band of counterfeiters believed to be members of the Hung Society, a Chinese secret organization. Lebrunau had been accompanied by The Lotus, an Oriental dancing girl, who was crazed by the shock of his death. The detectives were shadowing Ho Tase Kiang, keeper of a curio shop, in the belief that he was a member of the counterfeiting society. They learned he was going to a theatre and later to the underworld headquarters of the gang.

(Continued from Last Sunday)

At the suggestion of Dr. Bertillon I hurried to my room, accompanied by Inspector Rousseau, and prepared to disguise myself as an Oriental, so that I might pass the scrutiny of the watchful eyes of those on guard at the resorts of the criminals in the Chinese quarter.

A dye stained my skin a swarthy hue, a few lines gave my eyes the Chinese fold, which causes them to appear oblique, although in reality few Chinese actually have oblique eyes; and heavy horn-rimmed glasses altered the balance of my face and made the artificial lines hard to discern. My mustache I waxed to a downward droop, and when I had added a whisper of beard and donned an embroidered smock and wide cotton trousers, I was astonished myself at the change in my appearance. An ample coat and wide-brimmed hat concealed this make-up sufficiently for me to pass unobserved through the streets until the time came for me to play the part of a nondescript half-breed, such as I had often encountered in the Straits Settlements. When Rousseau came to inform me that he had a powerful car with a dummy taximeter waiting, I slipped a couple of .45 automatics into the elastic bands on my arms, so that a twitch would bring them into my hands more rapidly than the quickest draw of a Western gun-man could do it, and thus prepared followed my colleague at once.

"Knives are what you have to fear," he said, looking critically at me.

"Don't worry—I've steel and leather back and front," was my answer. "I'm fairly safe. Nevertheless—if you hear my whistle don't waste any time."

At Bertillon's suggestion, Colbert and Louys had both donned evening dress in case it should be necessary for them to enter the theatre. At seven we halted our car sufficiently near Kiang's shop to make it keep it under observation by means of an excruciating near glass beside the driver, and soon after our arrival a large, beautifully equipped limousine drew up before the main entrance and our quarry came out, muffled in a dark, fashionable cape and wearing a silk hat. He assured himself that our ostentatiously waiting detectives were still there by feigning to test the iron blinds protecting doors and windows, and then entered the waiting automobile. We immediately drove down the Chaussee d'Antin and gained the boulevards in advance of Kiang, convinced that he would actually come to the theatre, and in this we were not mistaken.

No one seeing him now would have suspected that he had any other purpose in view than an evening's relaxation. He wore his European clothes with the assurance of a man well used to them, and his lazy, good-natured smile, as he bowed to several friends in the crowd pressing around the ushers, was that of a man of the world. I thought it best to remain in the car with Rousseau while my two colleagues entered the theatre. The automobile that had brought Kiang had driven away, followed by one of our men, and the others lounged in full view on the broad stairs opposite the main entrance. The time dragged tediously until the first interval, when Colbert strolled to the terrace, puffing at a

cigarette. Behind him came a tall, fair-haired man, and beside him in the doorway I espied Louys. I was at a loss to understand why my colleagues were not watching Kiang, and was about to beckon to Colbert when I saw the fair man suddenly walk to the cloakroom and put on his coat and hat. In the brief moment that his back was turned Colbert slipped through an emergency exit.

"We must follow that man," he whispered, climbing into our car, while Louys sprang into the vacant seat beside Rousseau. "Kiang is a cunning devil! He had taken a box, and in the one next to him was another yellow man. I guessed his game at once. While feigning to watch the actors through his opera glasses he was able, by leaning against the low partition, to talk to the other fellow under cover of music. As soon as the curtain fell the second Chinese got up and walked to the foyer, where the fair man was already waiting. He at once pulled a cigarette from his pocket and sauntering up to Kiang's friend asked for a light. I was just in time to see a folded paper pass with the match box. He knew that the policeman on duty would immediately inform him that smoking was prohibited, and that it would provide him with an excuse for going into the hall—look out, here he comes!"

Our quarry had emerged as Colbert concluded his hurried explanation and with a quick glance to right and left he jumped into a slim, gray automobile which had drawn up to the curb. There followed a purr of powerful engines, and with a swift back and flying turn it shot through the narrow lane leading from the theatre into the rue de Richelieu. Although Rousseau was an expert at such work, he was hard put to it to keep the car in sight, for traffic continually forced him to slow down. In the rue de Rivoli pursuit became easier, but as we crossed into the Champs Elysees I caught a glimpse of a white face peering through the rear window.

"He's seen us," Rousseau cried over his shoulder. "Look, they are increasing their speed. I doubt if we can keep them in sight."

"You must," I replied grimly. "Switch on the small red and blue police lamps so that the traffic officer at the Ecole doesn't stop us. They won't dare pass him at that speed."

With a screech of skidding tires we swung towards the avenue leading to Neuilly close behind our quarry, but as we did so, a heavy lorry, which had been running close beside the fleeing car for several minutes, suddenly swerved and cut across our path in such a fashion that a collision was inevitable. I had seen the manoeuvre in time, guessed what it meant, and leapt an instant before the impact, landing safely on my feet.

"Get back to headquarters," I yelled. "I'll follow and phone."

Two cyclist police had dashed up as our car and the lorry splattered and crashed to a halt, and, displaying my badge, I seized the handlebars of the foremost bicycle and pushing the startled agent aside, sprang to the saddle and pedalled at breakneck speed down the avenue of



Sadi Tuan, a Malay Cut-throat, Who Attacked Mr. Ashton-Wolfe in the Den in the Cellar of the Chinese Opium Society. Photograph Sent the French Surete by the British Malayan Police



Sketch of a Scene in One of the Oriental Cellar Thieves' Dens in the Underworld of Paris.

the Grande Armees. Luck was with me, for the men in the gray car were convinced that their ruse had succeeded and had now turned leisurely into a side street that led to the suburbs. At Clichy they entered a public garage and to my joy I saw the green lamp of a police station at the corner. Leaving my machine at the curb I rushed inside and seized the astonished sergeant by the sleeve.

"Quick, get the exchange," I cried. "Tell them to note the number called up from that garage. If possible I want to know what is said. Send one of your men to watch if a gray car comes out again."

Fortunately the fellow grasped the situation at once. While a plain clothes man started at a run up the street, the officer called the telephone supervisor.

"They've already been connected," he said, turning to me. "St. Cloud forty-one. Subscriber is a Chinese named Monsieur Wo Sung. Villa des Tilleuls, near the river. At this hour the lines are quiet and the operator heard what was said. Someone asked to speak to Jean—and when told that Jean was out, said, 'All right, we are going to the club in half an hour,' and then added something in a foreign tongue."

"Good—get me the Quai des Orfèvres now." Fortunately, my colleagues had wasted no time in returning and I was able to get in touch with Colbert at once. I described the garage and what had been done and settled down to wait. Soon Rousseau, a bandage around his head, drove up in our big Daimler.

"Louys has gone back to the theatre," he remarked. "Colbert dropped off at the corner; he is examining the back of that building. I'll just stroll past to make sure that gray car is still inside."

Exactly half an hour later we had the satisfaction of seeing our quarry come gliding out once more. This time we were careful not to show ourselves, taking parallel streets whenever possible, until, towards midnight, the gloomy pile of the Sainte prison loomed up before us.

leaders that we have picked up the trail, we can hunt for them in vain. Be ready to come to my help."

A dim red lamp over a dark archway gave us a momentary view of two furtive forms as they slipped past the door, and making sure the pistols in my sleeve were at full cock, I handed my great coat to Rousseau and descended the crazy stairs. At the bottom sat a burly Chinese, who at once focussed the beam of a pocket lamp on my face.

"Why is your coat so old?" he chanted in Chinese.

Fortunately this was a question always asked of members of the Hung Society and I knew the answer required of me.

"It was handed down by five ancestors," and at the same time I stretched out the five fingers of my right hand.

"You are wearing leather shoes," the guard again chanted.

"I have grass sandals in my belt," I countered.

"You cannot pass."

"I walk on iron planks."

"How much did your parents leave you?"

"Three cash!"

My glib answers appeared to satisfy him, and this was not strange, since the secret passwords of the Tien Ti Hui are more jealously guarded than even the questions and answers of the higher Masonic degrees, and death swiftly punishes those who forget their oath. The knife in his hand slipped back into its sheath and the door swung open. I remembered what Rousseau had said—Easy to enter—but—and wondered if I should come out alive. For a moment I was dazzled by many lamps hung to form an arch above a triangle of gleaming sword blades, then I saw that I was in a spacious room littered with stools and small tables at which a ruffianly crew of Lascars, coolies and all the intermediate races of the Near East were sitting, gambling with dice and colored stones, and sipping tea or arack.

Here and there I noticed a typical apache

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The Fateful Eyes of Mo Fang, Which Caused the Chinese Dancing Girl, "The Lotus Flower," to Lose Consciousness.

"I know where they are going," Rousseau said suddenly. "We'll leave our car here. The club, as our fair-haired friend called it, is a cellar tavern frequented by Orientals. I advise you not to try to enter. It's worse even than Emile's. Heaven knows how many murders have been committed in that foul place. We have raided it time and again, without getting any evidence."

"If that fellow goes in there I've got to follow. Once he succeeds in warning the ring-

The French Detective Police

the Police Laboratories of France, Explains Modern Scientific Methods Unravel Baffling Crimes and Gives Details of Remarkable Cases, With Photographs of the Evidence from Official Records

Methods of modern science, developed so marvelously in the fields of medicine, agriculture, industry and elsewhere, are now being applied to the detection of crime in the police laboratories of France, Germany and England, have been revealed to the time to readers of the American Weekly.

H. Ashton-Wolfe, recently Assistant Investigator, Lyons Police Laboratory, and for many years associated with Dr. J. of the Paris Surete (French Detective Police), perhaps the most of all modern scientific detectives, again opens the records of the Paris Detective Bureau and shows by further examples how

the unerring instruments of science often uncover the most carefully concealed trails and make clear the most baffling mysteries.

"The stories which I have selected for this series can be found in the official records, only one or two details having been rearranged in order to avoid giving pain and reopening old wounds," Mr. Ashton-Wolfe writes.

"I have myself taken part in the investigations or the final trials of the criminals. Several of the cases I have specifically selected because of the ingenuity displayed both by the law-breakers and the investigators."

and wondered how such intruders came to be admitted; women there were none and this was significant. The fair man and his companion, the driver of the car, were sitting in a corner alone; obviously they had not yet had speech with the leader whom they sought. Looking around me questioningly as though I, too, had come with a message, I placed my right hand on my left shoulder, the sign of greeting, advanced my left foot before passing under the bridge of swords, and spying an empty stool sank down with assumed indifference and ordered tea, although my heart was pounding painfully against my ribs. Every eye had turned towards me, covertly, furtively, in truly Eastern fashion, and as one of the dice players suddenly looked up and the light fell on his face a shiver ran along my spine, for I recognized him.

It was Li Ho Fang, one of the most callous murderers the Surete had ever tackled. When we rounded up the accomplices of that monster Hanoi Shan, better known as the Spider, Ho Fang had snapped the chains on his wrists, shot the two policemen who were taking him to headquarters and vanished into the night. Bertillon believed the creature had returned to China, and indeed he was here in our midst. When the silent attendant brought my tea, Ho Fang lifted his own cup, coiling two fingers around it and glaring at me with his wicked reptile eyes. I at once replied to the sign, and to my unspeakable relief he turned again to his dice.

At that moment a quiet English voice murmured close to my ear, "Don't turn round. I'm Bruce Chandler from Singapore. I'm after Ho Fang for killing my brother. I guess you want him, too. I recognized you at once. For God's sake make no mistake or your number is up. Look, here comes Sadi Tuan, the gang boss."

A huge, muscular Malay was creeping silently across the room and I had much ado to keep my hands from trembling.

"What are you seeking?" came in a sibilant whisper from the fellow's great, fleshy lips.

"The Master," I replied.

"Well, I'm the Master," and he grinned wickedly.

"There is a draught of wind," meaning by this, "The police are after you."

"Why?" he queried, the grin wiped from his face.

"Because the lion's cub was bathed."

As I uttered the secret phrase that revealed my knowledge of Lebruneau's death, I heard Chandler groan in despair. Somehow my answer had been wrong for the Malay had leaped away and was fumbling at his belt, but I was too quick for him. A flick at my elastics and the fellow gazed down the menacing barrels of my forty-fives.

"Hands up, you scum!" I yelled, backing towards the door. Ho Fang tried to pull a dagger as he leapt to his feet and I sent a thunderous shot through his right arm, hurling him to the floor. My ruthless but necessary action brought every hand into view, and I was glad to feel the welcome pressure of Chandler's broad back against mine.

"Pull my whistle from my smock," I cried. "The chain is round my neck. I'll cover this crowd and we'll get the whole gang," then in the hope that some understood English, I added: "There are five armed police outside."

But the effect of this last statement was unexpected. As the whistle shrilled, the whole crowd rushed at me heads down. What followed was a nightmare. The roar of my pistols under the low ceiling was deafening, and shots, knives and bottles whizzed about me. I had sprung forward and placed a foot on the prostrate Ho Fang, but a well-aimed stool struck me full on the chest; Fang hooked his foot behind my ankle and kicked with the other below my knee, sending me flying, and as I came to the ground he struck and ripped at my breast with a heavy knife. Only my steel vest saved me from instant death.

Chandler, too, was down, but already Colbert and Rousseau were among them, striking

right and left with their rubber sticks, and a dozen uniformed police were clattering down the stairs. I had gripped the Chinese's unhurt arm to prevent his escape, holding on with a last despairing remnant of will, as the struggling, fighting forms pounded about us. The lights had been extinguished and the battle in the dark became an evil dream that at last merged into the black void of unconsciousness as a frightful kick caught my temple a glancing blow. I came to my senses with the burning tang of spirits in my throat. Rousseau had pillowed my head on his knee and was winding a bandage about a wound on my scalp that bled freely. Struggling to a sitting posture, I gazed eagerly around.

"Keep still," my friend grunted. "We've got the yellow scoundrel and two apaches; the others got away through another door. The place is honeycombed with passages."

"And the fair man?" I gasped. "Dead—someone shot him—I think it was Colbert—when he tried to stab this fellow here who fought to protect your back." It was only then I saw Bruce Chandler, of the Singapore police, sitting limply in a chair and nursing a crushed hand.

"Reminds me of that scrap at China Charley's bar at Saremban," he said weakly when he perceived I was conscious. "You've a gift for starting things, my friend. Anyhow, Fang is taken, but you will have to hurry if you hope to catch the leaders of the gang."

"The villa at St. Cloud is surrounded," Colbert remarked. "Louys did that. He phoned to headquarters to report that Ho Tze Kiang had gone there after the performance at the theatre. I've been talking to our chief. If you feel better come along."

Our prisoners were locked in a police van, two officers remained on duty at the tavern door, and supported by my friends I staggered to our car. Bertillon frowned ominously when he saw my plight, but under his assumed angry demeanor I sensed genuine concern.

"You should not have gone into that place," he said. "It could have been surrounded and every man taken without all this fighting. You are supposed to use your brains, not your pistols."

"Our task was to find the man who killed Lebruneau and to prevent the fair man from warning his chief," I said lamely. "I didn't start the rough and tumble."

"Well, go at once and fetch this Chinese, Rousseau. We'll question him."

"You can't do that," the old brigadier replied grimly. "He committed suicide in the cells. Some poison he managed to hide, although we searched him thoroughly."

"May I hear exactly what you are after?" Bruce Chandler now interposed. "Perhaps I can help."

When Bertillon had rapidly outlined the events of the past week the British official looked thoughtful.

"I was wanted for countless murders," he said, "but he was only a catapaw. Obviously he belonged to a very complex organization that makes use of the secret Hung passwords. Therefore the leaders are Chinese. You say the Corsican found in the Louvre is dazed and helpless—as also the dancing girl, and both have a dragon tattooed on their necks. I've heard of that trick before. During my twenty years' service in the East I've come across strange things. Can you send for the fellow and get me some drugs? Here is the list," and he scribbled rapidly on a sheet of our official paper.

Bertillon looked up with a startled expression when he had read it.

"Strong stuff, this. You are sure it'll not harm the man?"

"Certain! I've used it before."

"Food and drink was served to us while we waited, and an hour later a haggard creature, unaided and unshaken but wrapped in a warm



"The beam of Rousseau's flashlight rested on a table in the center, where sat three men. Two of them, garbed in loose Chinese dress, were dead, their heads resting against the high-backed chairs, while between them, still in evening dress, sat Ho Tze Kiang, a foolish smile on his face, his eyes staring vacantly at the table cloth."

"But at that instant both inner and outer doors slammed shut. Suddenly a square flap in the ceiling was raised and the hideous and malevolent face of the 'Spider' was framed in the opening. He had smeared some kind of luminous paint on his cheeks, so as to give them a cruel, deadly aspect."

"Ha, ha!" the creature called out gleefully. "The sign of fire! And you don't know what it means?—Well, you will—you will!"

"As the face was withdrawn my pistol spat redly, but just a second too late; then a frightful explosion shook the house."

cloak, was led into the office. He drank the cup of black coffee, into which the Englishman had poured a tablespoonful of his mixture, without appearing surprised at finding himself surrounded by strangers. Thereupon Chandler placed him in a chair, extinguished the lights in the ceiling, and taking a small convex mirror from his pocket, focussed the rays of a lamp so that a dazzling beam struck full into the man's eyes."

Then began a queer scene that savored of black magic. Pressing his hands on the Corsican's temples he passed them slowly downwards again and again, murmuring a curious formula in Malay. Abruptly he cried in a loud insistent voice in French, "You are awake, Costa, you can speak. Tell us who ordered you to sleep."

I saw the man's lips twitch spasmodically, but although his throat worked and his body was shaken with tremors he uttered no sound. Yet the constant hypnotic repetition of the same words finally appeared to reach his dulled brain, for with a sudden horrible spasm, he cried, "The Spider, the Spider!"

At the words Bertillon leapt to his feet, with blazing eyes, but Chandler waved him back.

"Who is the Spider?" he demanded roughly. The momentary effort had left the Corsican weak and trembling.

"The Spider—Shan, the Spider! Shan, the Spider!" he said once more in a dull voice, then his head sank on his breast. A long pregnant silence followed. Moistening his lips with an effort Bertillon croaked hoarsely, "Hanoi Shan, whom we thought dead. That explains much. To think that fiend is active again."

"You know what it means?" Chandler asked curiously, forcing some spirits between the unfortunate Corsican's lips.

"Hanoi Shan, nicknamed the Spider—the governor of a province in Indo-China—is the worst criminal we've ever hunted. What do you think, Monsieur Chandler, has been done to this man?"

"Poison and hypnotism. He will never recover. I've seen the like before. A secret process only known to adepts of the Tien Ti Hui. I suggest that the house at St. Cloud be raided at once."

Our chief looked questioningly at each of us in turn.

"We'll do it, chief," Rousseau growled, and

Continued on Page 22

a "well done!" when she tore out of the rough. She'd look lovely in golfing kit, too, and the men in the clubhouse would eye her furtively and appreciatively when tired, flushed and exhilarated after the game, he took her in to dinner. Dinner? Of course! Who wanted to come back to a

(Continued on Page 16)

(Continued on Page 16)

The NEW GAYTIES
Approved by Paris

The advertisement features a central illustration of a woman in a dark, elegant dress and a tall hat, standing on a striped surface. Below this, two circular insets display different styles of gaiters: one with a light-colored, possibly lace-trimmed, design, and another with a dark, solid-colored design.

These Leir-Kwik Gaytons are of featherweight rubber. Their appearance is particularly smooth because the Kwik fastener is concealed.

These Snap Fastener Gaiters are made of all rubber, in a new distinctive pattern not usually seen in this type of storm footwear.

Gaytees
Reg. U. S. Pat. Off. THE TAILORED OVER

THE TAILORED OVERSHOES

thanks to Ipana!

3. NOW MY GUMS ARE FIRM—MY TEETH SPARKLE
We do it twice a day. Just clean your teeth with Ipana. Then rub some *fresh* Ipana right into your gums. And leave it! It tastes good! If you could see how white my teeth are now—and how hard my *gums* are—you'd know how much good Ipana does. I saw the last of "pink tooth brush" before a

"Wear-Ever" Oval Roaster
\$3.75
 Just the thing for baking fish, ham, meat roll; for broccoli, asparagus, corn, etc. Ovenproof, composition handles.

"Wear-Ever" Round Roaster-Canner
 Get one today! For roasting 5 lb. chicken, duck, pork, lamb or rolled roasts. As a canner it holds five one-pint jars.
\$2.45

"Wear-Ever" Double Roaster-Canner
 Gives your turkey plenty of "elbow room," roasts it thoroughly, preserves its flavor. This "Wear-Ever" Double Roaster will also bake apples, cook the whole meal over one flame, and do your cold pack canning job.
 Size to hold a 6 lb. turkey **\$3.75**
 Size to hold a 10 lb. turkey **\$4.75**
 Size to hold a 14 lb. turkey **\$5.75**

Again, as for 31 years, the best Thanksgiving Dinners will be cooked in

CAREFULLY DRESSED, temptingly stuffed with savory seasoning, your turkey is ready for roasting. Soon it will be golden brown, perfectly cooked,—if you entrust it to a "Wear-Ever" Double Roaster.

The heat spreads quickly over the bottom and up the sides of a "Wear-Ever" Roaster. Resting on the patented lifting-rack, instead of on the bottom of the pan, your turkey roasts *evenly*. As the tasty juices and aroma are released, the roaster's tight-fitting cover preserves them all. When you lift out your perfect roast, you suffer no burnt fingers or hands—thanks again to the patented lifting-rack.

"Wear-Ever" Aluminum fits every modern kitchen color-scheme

No matter what the decoration or color scheme of your kitchen, "Wear-Ever" Aluminum Utensils, with their silvery surfaces, fit in. For aluminum is the one color that harmonizes with every other color. Nor do "Wear-Ever" Utensils lose their silvery brightness. They're rust-proof and

"Wear-Ever" ALUMINUM



easy to clean. And, lest we forget, "Wear-Ever" Utensils are lighter to handle than those of any other metal, and cook more evenly because they conduct heat three times faster than iron or steel.

There are "Wear-Ever" Utensils for all cooking purposes. Use them in preparing the whole meal, and you'll find *this* Thanksgiving dinner more enjoyable in the cooking as well as in the eating.

I will be glad to answer any questions you may want to ask regarding kitchen utensils. Let me send you the "Wear-Ever" Booklet on Roasting. It gives time tables for all oven roasts. It is free and was written by Caroline B. King, Women's Editor of "The Country Gentleman."

Margaret Mitchell

In charge of "Wear-Ever" Kitchens, New Kensington, Pa.

"WEAR-EVER" Aluminum Cooking Utensils displayed by department, house furnishing and hardware stores. If you cannot obtain these "Wear-Ever" Roasters in your locality we will supply you direct. Add 25c to cover mailing charges on each utensil. Address The Aluminum Cooking Utensil Company, New Kensington, Pa.



The Byrd Expedition Flagship "City of New York"

It's not so easy to cook at the South Pole. That's why Commander Byrd took along a complete equipment of quick-heating, light-weight, fuel-saving and healthful "Wear-Ever" Aluminum Cooking Utensils.



Battle Creek Sanitarium Battle Creek, Michigan

Just one of the hundreds of famous hospitals and health institutions that have chosen "Wear-Ever" Cooking Utensils for their healthfulness, their cleanliness, their durability, their "better cooking" properties.

In LIBBY'S Pineapple: *just the center slices*

In LIBBY'S
Peaches:

superbly matched halves

and they cost you no more!

Matched halves! From the finest peaches that California grows—glorious, golden halves, marvelously uniform. Pains-takingly matched for color, texture, size. Every one rich in luscious, true peach flavor. Every one delicately firm, yet tender.

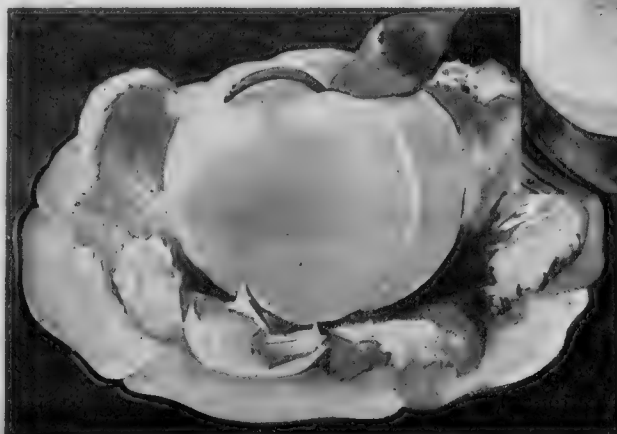
That's what you get in every can of Libby's—and only Libby gives you peach halves so superbly matched.

It's not easy, nor quick, nor inexpensive—to match peach halves like this, for Nature produces peaches in infinite variety.

Ten rigid inspections must be passed before Libby is satisfied. Inspections of the orchards, of the fruit as it comes in warm from the sun; inspections at each step of preparation, even a final test check of the fruit as canned. Eagle eyes watching, accepting this half, rejecting that; but then... what amazing uniformity, what flawless, luscious fruit!

And these matched halves of Libby's cost you not one penny more. So ask your grocer for Libby's California Peaches; see that you get them—there's reason for insisting. If he doesn't have Libby's he can get them for you.

Libby, McNeill & Libby
Chicago



You'll appreciate the marvelous uniformity of Libby's Matched Halves when you make this Rosy Peach Salad! They fit together so perfectly you'd almost think it was a whole peach—until you cut into it and find a stuffing of cream cheese. For the attractive rosy color, tint the peaches with half a Libby's Maraschino Cherry or with red vegetable coloring.

RADIO! Tune in for the Libby programs, Wednesday, Thursday, and Friday mornings, over the N. B. C. networks. 10 A. M. Eastern Time



The House Next Door By Burton Stevenson



"Good Heavens!" Summons Exclaimed in a Low Voice, and Stood Staring.

Synopsis of Preceding Chapters.

PROFESSOR PHILIP VERTY, who had been a student of the famous University of Cambridge, and who had been a member of the House of Commons, was now a member of the House of Lords. He was a man of high standing, and his name was well known in the highest circles of society. He was a man of high standing, and his name was well known in the highest circles of society. He was a man of high standing, and his name was well known in the highest circles of society.

CHAPTER VIII.

HE tension in the faintest chamber, lessened when Hamilton was dismissed and Dr. Conover, the police surgeon, called. He merely corroborated the testimony of his colleague as to the manner of Verty's death. Then Bernstein and Summons had a short consultation while everybody relaxed and stretched their legs, and finally Bernstein, who stood toward the living end of the sofa, beside the dealer in antiques.

"Mrs. Carnevali," he said, "will you take the stand?"

Madame Carnevali was a sight for the gods as she walked forward to the witness-chair and seated herself there. She wore a little black tulle, which she only described as elegant, and dressed in a simple costume of some sheer, clinging black material—all in black except for narrow white collar and cuffs, with a line of red near the edge. I could conceive of nothing better suited to her stark and beautiful beauty. But then I am partial to black. I think it the most fascinating of the world's colors, the most dignified, the most seductive color a woman can wear. So I contemplated Madame Carnevali with absolute approval.

I dropped my awkwardly descriptive her. She sat, tall and erect, yet I was struck with the delicacy of her whole appearance, with her look of race, especially evident in the over-probably anguine nose with its arched, sensitive nostril, and in the fine, rose of the pointed chin. Mentally I contrasted her with her over-plump husband. Overweight I decided was a better adjective. Why had she married him? She should have shared a throne with Henry of Navarre, or ridden forth to a crusade through Don John of Austria. She would have satisfied even those great lovers!

"Mrs. Carnevali," Bernstein began, and from a certain fluting note which he was unable to keep out of his voice it was apparent that he too was impressed, "will you tell us where you were last Tuesday afternoon?"

"I was at home all afternoon," she answered, and a shower of delight ran through me at the sound of her voice, which I had been too agitated to hear when

I glanced at her. Her face was white, her lips pressed tight together, and she was staring at the witness with a curious fainty. "Now let us get the lie of the land," said Bernstein. "How far apart are the two houses?"

"Oh, I do not know," answered Madame Carnevali, helplessly. "How much is a metre?"

"But surely you know!" protested Madame Carnevali. "A metre is about three feet."

"Yes. And there is a driveway running back from the street close to the Verty house, past a side porch upon which the study opens in which Mr. Verty's body was found, and then on to a garage at the back of the lot. That is correct, is it not?"

"Yes, that is correct."

"Your husband has mentioned the fact that there is some shrubbery between the two houses."

"Madame Carnevali shot her husband a fletting glance. For a moment she seemed confused. Yes, there is some shrubbery," she said at last, "but the driveway can be seen quite clearly."

"Now, exactly where was this young man?"

"Madame Carnevali closed her eyes in an effort to visualize the scene."

"He was just stepping down from the porch when I first saw him, and then he hurried away toward the street."

"Hurred, you say?"

"He was with no quite rapidly."

"Which way did he turn when he reached the street?"

"Oh, but I did not see him reach the street," protested the witness a little petulantly. "I merely glanced at him—there was nothing unusual about him."

"Will you describe him?" asked Bernstein.

Again the witness closed her eyes.

"He wore a straw hat with a wide brim—a Panama, I think," she began slowly, "and his clothes were of very light gray. I think he had on a blue shirt and collar. His face, I think, was clean-shaven. But I saw it only for an instant as he stepped down from the porch."

"I look off my hat mentally to Madame Carnevali's power of observation. Not one person in a hundred would have noted so much in so short a space of time."

Now let us get this accurately," said Bernstein. "The porch upon which the study opens in which Mr. Verty's body was found."

"Yes."

"Good," said Bernstein. "Now, Mrs. Carnevali, did you recognize this man?"

"Oh, no," answered Madame Carnevali instantly. "I have told you that I scarcely saw his face. There was something in her manner which caught my attention. It seemed to me that her answer was a shade too emphatic. Bernstein sensed it too. "It is not always necessary to see a man's face in order to recognize him," he pointed out. "Was there anything about this man which seemed familiar—which reminded you of anyone you know?"

"No, not at all," said Madame Carnevali, even more decidedly. "There was nothing at all familiar about him."

"How old was he?"

"Oh, I don't know."

"You spoke of him a moment ago as a young man."

"There was something about him that gave the effect of youth—his spry step, perhaps—his rapid movement."

"Ah, said Bernstein, "he was moving rapidly?"

"I have already said so," answered Madame Carnevali, plainly impatient of all these questions.

"You will excuse me if I seem to go too much into detail," apologized Bernstein, "but small details are sometimes very important. Please believe that I am not asking you any question which does not seem necessary."

Madame Carnevali inclined her lovely head, but she did not look convinced.

"You have said that it was about four o'clock when you left the study," Bernstein went on. "Can you place the time accurately?"

"I remembered my husband looked and said to me, 'We have been at this half an hour—do you not think we might have something to drink, Lucia?'"

"It was at his suggestion, then, that you went for the refreshments?"

"Did you yourself look at any watch or clock?"

"No. That is all I know."

"Very well. And after you had glanced out of the window at this man, what did you do?"

"I prepared the refreshments and had the maid take them into the study."

"You returned there yourself?"

"Yes."

When children "simply won't eat"—
When they just won't gain weight—
Fatten them this way—

A Pound a Week

The youngster who has no appetite, probably has stasis. A little fig syrup will soon correct this condition—then watch the child eat—and gain!

Mothers should never coax a child to eat. Nature knows best. Remove the cause of a youngster's poor appetite—get rid of stasis. Children who don't eat are sluggish. Not to correct this is *inevitable*. It is so easy to do, if you will only use the "California treatment." Read what it is doing for sluggish, listless children in every part of the country!

Begin Tonight!

Your child will eat well from the day and hour you conquer sluggishness. But that girl or boy with furry tongue and a bad breath should not be dosed with salta!

Begin tonight, with enough pure fig syrup to cleanse the colon thoroughly. Less tomorrow, then every other day, or twice a week until the appetite, digestion, weight, complexion, tell you the stasis is gone. It might take a month, but you can positively wean the child away from constipation and need of cathartics. When a cold or other ailment has again clogged the system, fig syrup will soon set things to right.

When appetite fails, tongue is coated white, eyes are a bilious yellow, California fig syrup will gently stimulate the colon muscles—and the child you used to coax to eat will fairly devour his food, digest it, gain weight and strength.

There's just one!

The marvelous things you hear and read about California fig syrup are true and it will do the same for you—if you get genuine CALIFORNIA fig syrup. Don't accept any bottle that doesn't say CALIFORNIA.

WHEN you are asked what magazine has the greatest number of readers in the world your reply will be correct if you name The American Weekly—regularly read by 5,500,000 families—because it is the most interesting weekly magazine in America.

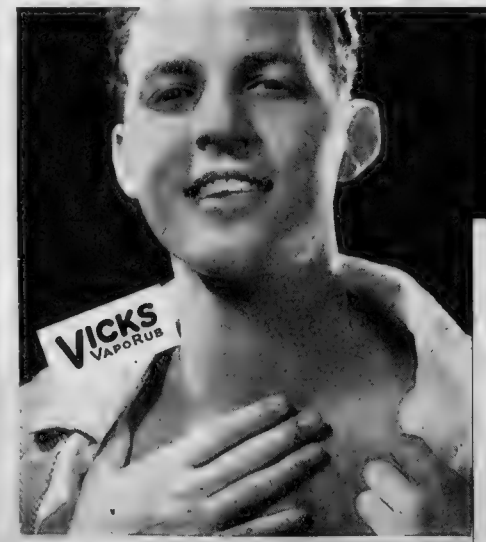
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... Only the Cold Removed

Thanks to a new process, you can now have Vicks in stainless form. It's your same dependable Vicks with cold removed—the same formula—at the same price... the standby of mothers for a generation, for the colds of all the family.

NOW... to Avoid that next Cold

At that first warning, that stuffy, sneezy feeling—try this amazing new formula by Vicks—designed especially for the nose and upper throat—where most colds start. Vicks Nose and Throat Drops are based on a totally new idea for the prevention of colds. Used in time, many bad colds can be prevented altogether. Here's amazing new relief for your head colds at any stage—and for the discomforts of Nasal Catarrh. Let Vicks Nose Drops prove their worth as a companion of Vicks Vaporub on your medicine shelf. Guaranteed by the famous Vicks name—known and trusted in over 70 countries. Ask your druggist today.



Don't "dose" colds except on your Doctor's Advice



The House Next Door By Burton Stevenson

(Continued from Page 16)

"And remained there until the conference was over."

"Did you mention to your husband that you had seen this man?"

"Oh no—why should I do that?" demanded Madame Carnéval. "It seemed of no importance until later when he came back and told me that an accident had happened to Professor Verity and that Doctor Hamilton had insisted on calling in the police. I told him then."

"What did he say when you told him?"

"He said it was most important and that I must inform the police," answered Madame Carnéval, in a tone which indicated how deeply she loathed the society which had brought her to this place.

"He was quite right," said Bernstein. "It was an unpleasant duty, and I wish to thank you for performing it. That is all, I think."

Every eye in the room followed her to her seat, and every man effused Carnéval the privilege of leaning over and patting her softly on the knee. But Carnéval did not seem pleased. Her maid was called next and confirmed her testimony. She was, as I have said, a somewhat unimpressive woman of middle age, a product, so it turned out, of Mount Vernon, and she seemed to be laboring under some repressed emotion—due, perhaps, to the unaccustomed publicity of an appearance at an inquest. She had not seen the man, nor did she know that her mistress had, but she could tell the exact time, for she was in the kitchen when the bell rang and had glanced at the clock which she kept on a shelf there. It was six minutes past four.

"That is all," said Bernstein, and before the maid had regained her seat, he called, "James Cassidy."

Cassidy proved to be a middle-aged Irishman, painfully arrayed in what was evidently his best black suit, and tormented by an unaccustomed collar.

"Your name is James Cassidy?" Bernstein asked.

"Sure, your honor," Cassidy began. "I know that, your honor."

"You saw the young lady who testified first this afternoon—she is sitting there in front of you?"

"Yes, your honor."

"Have you ever seen her before?"

"Yes, your honor."

"Where?"

"At the corner of Cray and Sidney avenues, your honor."

"How was it?"

"I'm in the street cleaning department, your honor."

"Do you know Miss Janet Verity?"

"No, your honor."

"You saw the young lady who testified first this afternoon—she is sitting there in front of you?"

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"No, your honor."

"You saw the young lady who testified first this afternoon—she is sitting there in front of you?"

"How long was that?"

"Only three or four minutes, your honor."

"Which way did the car go?"

"It went off toward the station, your honor."

"And which way did the man go?"

"He walked off up Cray Avenue, your honor."

"Describe this man," commanded Bernstein.

"I didn't see his face, your honor; his head was inside the car when I first saw him, and his back was to me as he walked away."

"But you saw how he was dressed?"

"Yes, your honor. He had on a light gray suit and he had a Panama hat in his hand."

"Walked away so fast?"

"Yes, your honor. He was walking away so fast I thought he was mad about something."

"That is all," snapped Bernstein.

"He was quite right," said Bernstein. "It was an unpleasant duty, and I wish to thank you for performing it. That is all, I think."

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CHAPTER IX

A STARTLING REVELATION.

I SAW her imploring glance as she rose stiffly to her feet and made her way forward, but there was nothing I could do. Bernstein was entirely within his rights. I was relieved to see that she was fairly composed as she sat down and faced Bernstein, but I knew she would not spare her now.

"Miss Verity," he began, "a man called at your house yesterday morning and asked for you."

Miss Verity shot me a startled glance. How did the police know that? Did they not know from her? The Verity place, then, was being watched. Somebody—Simmons, perhaps—was being really clever.

"Yes, there was a man," Miss Verity answered, evidently surprised by this question.

"You saw him and talked to him, did you not?"

"Yes, but only for a moment."

"Who was the man?"

"It was Mr. Chandler."

"Ah, the man who lives next to you?"

"Yes."

"He is a Hindu?"

"Yes."

"What was his business?"

"He had been away Tuesday afternoon and evening, and had not heard of father's death until yesterday morning. He wished to tell me how shocked he was by it, and how much he had thought of father. He is a very learned man. He had been helping father with his book."

Her voice trailed away. She was evidently almost at the end of her strength. I determined that Bernstein should not press her too far.

"Had he been coming to your house often?" he asked.

"Yes, quite often."

"Was he there on Tuesday?"

"Yes."

"At what time?"

"He came just after lunch."

"What time was that?"

"About 2 o'clock, perhaps."

"And at what time did he leave?"

"I do not know. I did not see him go. I was upstairs dressing."

"Was he there when you left the house to drive to the station?"

"Oh, no. He had gone long before that."

"How do you know he had?"

"I stopped in the study for a word with father just before I left. Mr. Chandler was not there. Father was alone."

"But Mr. Chandler might have been somewhere else in the house?"

"Oh, no. That is impossible. Why should he be?"

"No matter," broke in Bernstein. "All you can say certainly is that he was not in the study when you went in to see your father?"

"Yes, I suppose so," assented the girl diffidently.

"Now, Miss Verity," went on Bernstein, "you have heard Mr. Lester's testimony with regard to the will which your father contemplated making. Had your father said anything to you about this will?"

"He had mentioned that he intended making it," she answered in a low voice.

"When did he mention it?"

"I don't know. He mentioned it several times during the past few weeks."

"Why did he wish to make a new will?"

"I suppose he," she began, and stopped. "I really do not know."

"But surely your father told you why he wished to make a new will," Bernstein persisted.

"No," she answered, "he did not tell me."

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(Continued from Page 19)

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Jenkins nodded.

style Cellophane
that opens so easi

wrapper
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(Continued on Page 21)



EVERY time you wash your face and hands use this delicately medicated **Soap** and note how it not only cleanses but also protects the skin. Made of the purest ingredients, **Cuticura Soap** is ideal for daily use for all the family.

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Try the new Cuticura Shaving Cream.

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style Cellophane wrapper that opens so easily."

Daley Eilers

Sally Eilers will always call this her big year. First, she learned to fly a plane. Then she married and found domestic bliss. Then she made a smashing success in "Bad Girl." As a reward, Fox is co-starring her in "Over the Hill."



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The Cream of many Crops—LUCKY
STRIKE alone offers the throat pro-
tection of the exclusive "TOASTING"
Process which includes the use of
modern Ultra Violet Rays—the pro-
cess that expels certain harsh, biting
irritants naturally present in every
tobacco leaf. These expelled irritants
are not present in your LUCKY STRIKE.
"They're out—so they can't be in!" No
wonder LUCKIES are always kind to
your throat.

"It's toasted"

And Moisture-Proof Cellophane Keeps that "Toasted" Flavor Ever Fresh

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Sealed Tight—Ever Right
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See the new notched tab on the top of the package. Hold down on half with your thumb. Tear off the other half. Simple. Quick. Zip! That's all. Unique! Wrapped in dust-proof, moisture-proof, germ-proof Cellophane. Clean, protected, neat, FRESH! — what could be more modern than LUCKIES' Improved Nudor package — so easy to open! Ladies — the LUCKY TAB is — your finger nail protection.



 says a famous child specialist of this pure vegetable preparation—

Follow this simple advice the next time your child seems upset. *Genuine* Castoria always has the name Chas. H. Fletcher on the package. Be sure you get it.

[illegible]

Chas H. Fletcher.

CASTORIA

Secrets of the Surete, the French Detective Police

(Continued from Double Page)

I nodded approvingly. "I'd go without rest for a week to get that scoundrel!"

"Very well! You have yet two hours before dawn, the best time for a surprise visit. Order the cars. I'll get in touch with the river police. We know his tricks now. The Villa des Tilleuls is close to the Seine, as usual."

"I'll go to bed if you don't mind," Chandler said with a yawn. "This is routine work and doesn't concern me. My task was to find Ho Fang. If you want me, telephone to the Bristol Hotel."

When we emerged from the Hotel de Boulogne a dense mist was swirling over the road, and through this the river loomed dimly like huge, silent sentries. At that hour we encountered only a few farmers' carts laden with produce for the city, their drivers asleep or drowsing, with loosely dangling reins. We slipped past these with silent engines, showing no lights, for long experience had taught us how incredibly cunning the Spider could be. Even a farmer's cart might conceal unseen watchers. Our only hope of taking this monster of a hundred murders by surprise was that perhaps he believed we knew nothing as yet of his presence in Paris, and since he would rely on the blighting poisons which had robbed Costa and the Flower of their memory and since the fair man had been killed, there was just a chance of this, unless Kiang had warned him in time.

The Villa des Tilleuls was a large square building, surrounded by a hedge of holly and birch behind which ran a row of stone pillars. Silent as ghosts we skirted this apparently flimsy yet formidable barrier, for steel wire suggested electrical alarm. The gate, too, was swung from massive stone pillars, and above it ran the same spiked netting. The house itself appeared dark and deserted, but a low white from the rear warned us that there were dogs loose in the garden.

"Louise should be here," the landlady whispered, peering at the belt of trees.

"So he is," came a sibilant reply from the ground. "He is not fool enough to show himself against the skyline. I've a man concealed under the hedge every-

ten yards. What need was there for you to come?"

I felt for and found my friend squatting in a little recess he had cut for himself and explained what had happened.

"I guessed something had stirred them up," he remarked. "Kiang got here at midnight."

"Good," the man said. "I can't have known of the flight at the tavern. No one else?"

"No, but since you tell me Hanoi Shan is here, there may be other means of ingress and exit," Louisa said. "It's queer they've not tried to telephone."

"The river—" I ventured.

"Not anywhere near. I've a boat above and below."

"Well, get your tools and make a hole under the wire," I said, turning to Rousseau. "And send for rags from the cars to twist about the dogs' heads if they attack. If we wait much longer day will break."

We were accustomed to force every eventuality, even a pick and spade had been brought, and soon a broad ditch gave us access to the garden. Holding the thick rug before us, we ended off a huge Albanian that looped at us with gleaming fangs, and under the weight of a dozen men the powerful beast was quickly trussed and its jaws tied. We waited to make sure its ferocious snarling had not alarmed the inmates of the villa, and since apparently nothing stirred, crept softly to the massive door. Rousseau turned the handle tentatively, and a low involuntary exclamation burst from him as it swung open.

"Quiet!" he muttered. "It was not even locked."

Step by step, our electric flashlights flickering from side to side, we advanced along a narrow passage to a room at the extreme end, of which the door stood ajar. Abruptly Rousseau's moving light steadied and rested on a table in the center, covered by a white cloth. At this table sat three men, and my scalp tingled with horror as I looked at them. For the garbed in Chinese dress, were dead, their heads resting against the high-backed chairs, while between them stood a young man, smiling at us, his eyes staring vacantly at the tablecloth.

"So he is," came a sibilant reply from the ground. "He is not fool enough to show himself against the skyline. I've a man concealed under the hedge every-

then that Chinese letters had been traced on it in red.

"Quick—switch the lamps on and search the house," I cried, mastering my horror with an effort. "We need for silence, our visit was expected."

Colbert at once flooded the room with light, and while our men clattered up and down the stairs we examined the ghastly trio.

"Shan's work, of course," Rousseau snarled. "Remember those notes in the corridor case? Those have been stabbed in the back also, and the curio dealer is mad. What's that writing in front of him?"

"I can't quite make it out," I said. "I think it means, 'Fool as you are, than traitors—' and then there is the sign of fire—"

"—a man's head, with his arms raised up. What that signifies I can't say—well!" as our men came crowding into the room.

"The house is empty. Only this bloodstained swordstick on a

bed upstairs, as though it had been left purposely, and a bundle of banknotes in a cupboard."

"That's the weapon which killed Lebrun—" I was beginning, but at that instant both inner and outer door slammed shut; a grinding of bolts followed; the light was extinguished and from the garden came a burst of light. Hardly had the last vibration died away when a square flap in the ceiling was raised and the hideous, malevolent face of the Spider was framed in the opening.

He seemed some kind of luminous point on his cheeks, which gave him a truly diabolical aspect.

"His! the creature gurgled gleefully. 'The sign of fire, eh? Are you don't know what it means—well you will—well you will!'"

As the face was withdrawn, my pistol spat readily, but just a second too late; then a frightful explosion shook the house, and crimson flames shone through the windows and under the door, and a pungent odor of gasoline and

either caused us to gasp and choke.

"He's fired the house," Colbert yelled. "We're caught in a trap; pile chairs on that table, upwards is our only hope. Don't force the door or we'll roast."

Before he had finished his frenzied speech we were pounding upwards at the flap through which Shan had mocked us. Our levers soon tore it away, but already flames were crackling and hissing through a charred panel and the room began to fill with stifling fumes. The trap door led to the loft, and we tore frantically at the rafters and tiles until at last a gaping hole gave us access to the roof. Flames were licking up the walls, windows and doors spat fire, but on one side there was a dark gap where Lebrun had crunched a window and drenched the wood.

He had gathered his men here in three groups, and they held rugs and a large square of canvas

was by the corners to break our fall.

"Jump!" Louisa yelled. "It's your only chance. Quick, the blaze is spreading."

One after another we made the dreadful leap to safety. Rousseau came last, dragging the crated Chinese, and before jumping he flung him forward with all his strength. But his plucky net was in vain, the heavy body just missed the taut canvas, striking the ground with a sudden shock.

We met in Bertillon's office the next afternoon, white, shaken, and filled with rage and despair at our failure to capture Hanoi Shan, but our chief's first words caused every man to thrill with hope.

"We tried galvanic currents and hypnosis on the dancing girl. She was not so far gone as Costa. It was Ho Fang who murdered Lebrunau. She saw his face at the moment when the train as it drew away. She also described what she calls the hall of mirrors. I have heard of such a contrivance before. It was

that they mesmerized her with post-hypnotic suggestion, so that at night of Fang's eyes, when he glanced at her in the train, her mind became a blank."

"Yet she vaguely remembers that something wet and sticky was pressed on her face as she entered the compartment just after the murder. No doubt the man who threw the suitcase with the money from the train nineteen to the other pressed the stuff on her face to prevent her from crying out at once. She has given us some precious indications which should make it fairly easy to find Shan's real retreat. She described underground rooms where big machines print the bank-notes, which she thinks is near a river. She was always blundered when taken there, it appears, but once she managed to move the bandage a little. Moreover, she took note of the speed of the car and the time that elapsed after passing the Neuilly gate where they have demolished the old station."

"Now get what rest you can, you'll need that next day to recuperate. I'll start the search for this place. One piece of bad news, however, I tell you. It is turning to me, Bertillon added gravely. "Your plucky friend from Singapore has vanished, and we can guess why. He is who gave me the idea that the Lotus might be brought round by hypnosis. The hunt is on; alive or dead, this time the Spider must be found."

Despite Bertillon's brave work, however, we were destined never to enter the Asiatic secret headquarters, for when at last we discovered the house with the twin towers, not far from the Seine at Suresnes, the Spider was eager in time of our approach.

As we crept forward at dawn, eager to come to grips with the creature, flames spurted from every door and window, and by the time the hastily summoned fire brigades were masters of the conflagration Hanoi Shan had vanished, abandoning his formidable plant for printing counterfeits, notes, and several stacks of worthless paper money.

For nearly a year nothing more was heard of him, but the net drawn about the frontiers and seaports at last forced him to emerge from his retreat in order to live. The scheme he evolved for robbing society of his wealth he covered with the aid of his twisted brain, and this scheme, classified in the police dossiers as the "Mystery of the Stolen Portraits," finally brought him into our clutches.

Some charged him remains in a cellar under the riverbed house, but we found only the Bruce Chandler. Hanoi Shan had kept him chained there, probably in order to force him to reveal the plans of the Singapore plot, who were actively hunting down the Chinese members of the Tien Ti Hui.

Critics who have seen reviews of part of the movie in the studios are enthusiastic over the selection of Mlle. Natacha as Russia's first talkie star and have little fear that she will be lured away from them by American movie magnates because she speaks practically no English. Like many of America's feminine talkie stars, Mlle. Natacha developed her English and her voice in many years of work in four legitimate stage productions.

To Be Continued Next Sunday.

HARD ON COOLS

Cools haven't a EASY OF use the modern Pineoleum oil treatment! It soothes your cold away. At any drug store. Use with dropper or sprayer. Pineoleum, with rubefacient spray. Pineoleum, with medicine dropper.

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At last! Here is what every mother has been looking for. Ice-Mint. A delightful, refreshing, and soothing remedy for all the ailments of childhood. It soothes the throat, loosens the chest, and relieves the cough. It is a true "ice-cream" for the throat, and it is a true "ice-cream" for the chest. It is a true "ice-cream" for the lungs, and it is a true "ice-cream" for the heart. It is a true "ice-cream" for the stomach, and it is a true "ice-cream" for the bowels. It is a true "ice-cream" for the nerves, and it is a true "ice-cream" for the brain. It is a true "ice-cream" for the whole body, and it is a true "ice-cream" for the whole mind.

PERCOLORED

Brings Out the Hidden Beauty

There is beauty hidden in every woman's face that Mercolized will reveal. Mercolized is a gentle skin cleanser and beautifier. It removes all the dirt and grime from the skin, and it leaves the skin as soft and smooth as a baby's. It is a true "ice-cream" for the skin, and it is a true "ice-cream" for the face. It is a true "ice-cream" for the hair, and it is a true "ice-cream" for the eyes. It is a true "ice-cream" for the whole body, and it is a true "ice-cream" for the whole mind.

Gray Hair

Best Remedy is Made At Home

To get rid of gray hair, use a little of the water add a little of the cream. It is a true "ice-cream" for the hair, and it is a true "ice-cream" for the face. It is a true "ice-cream" for the whole body, and it is a true "ice-cream" for the whole mind.

STOP COUGHS LIKE MAGIC

For split-second cough relief try F&F. No other cough remedy is like it. Soothes the throat, loosens the chest, and relieves the cough. It is a true "ice-cream" for the throat, and it is a true "ice-cream" for the chest. It is a true "ice-cream" for the lungs, and it is a true "ice-cream" for the heart. It is a true "ice-cream" for the stomach, and it is a true "ice-cream" for the bowels. It is a true "ice-cream" for the nerves, and it is a true "ice-cream" for the brain. It is a true "ice-cream" for the whole body, and it is a true "ice-cream" for the whole mind.

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Sings With New Joy Heals Itching Skin

Grateful thousands tell how pure, pleasant, liquid, antiseptic D. D. D. Cream soothes the itching tortures of eczema, scales, dandruff, and other skin conditions. Its gentle oils penetrate to the very heart of the skin, and soothe the itching. It is a true "ice-cream" for the skin, and it is a true "ice-cream" for the face. It is a true "ice-cream" for the whole body, and it is a true "ice-cream" for the whole mind.

DO YOU KNOW THAT The American Weekly prints more sensational stories in a year than all the other non-fiction magazines combined?

To Be Continued Next Sunday.

Rabbits Are Running

By Mrs. Christine Frederick.

The Distinguished Authority on Household Efficiency.

WITH the "open season" for game and hunting in full swing, the house manager should consider some of these special meats and poultry for variety in her menus. The eternal question, "What shall we have dinner tonight?" can be answered by a choice of rabbit, pheasant, duck, quail, and in some sections, venison.

The rabbit or hare is common, only too common, in most localities, and its flesh has long been held in high favor, especially by men to whom its gamey flavor has a strong appeal. Women, even less fond of it, or perhaps they have disliked the task of skinning and preparation. The modern food dealer has been wise in his feminine psychology, and now skinned and cleaned rabbit is to be found on most butchers' and meat dealers' counters.

Indeed, this anciently popular meat has recently been the subject of official breeding and marketing. In addition to the wild rabbit which comes into the market, there is a new, improved "milk-fed rabbit" which should make a special bid for the housewife's favor. Like any milk-fed animal, its flesh is much more white, tender, and of a more delicate flavor. The Government has interested itself in this new rabbit culture, and special rabbit farms are scattered the country over. When the housewife asks her dealer for this milk-fed rabbit, she will be shown an article which is skinned completely, cleaned well, and which has all the appearance of a young broiler or duck.

On the score of economy—and that is a distinct point in the rabbit's favor—its flesh is considerably less expensive than poultry, which it so closely resembles. A "brace" (two) of rabbits come at about the same cost as a heavy turkey, or a stewing chicken. But its taste is quite different enough to warrant its cost. Why always stick to steak and chops and roast, when a special, seasonal item like rabbit is running heavily in the November meat market?

Practically any recipe for chicken can be followed with rabbit. But since its savor, or flavor, is its distinctive characteristic, the manner of cooking should preserve this savor to the utmost. That is why, for light rabbit, or pot-pie rabbit, rabbit forcemeats, etc., are perhaps the general treatments to be preferred. Any way of cooking which gives gravy, and plenty of it, and which combines this gravy with some accessory on which it can be used to advantage, such as dumplings, potatoes, boiled rice, pastry or dumpling crust, is the ideal rabbit recipe.

The body consists of two sets of legs (which are the most tender eating), and the back, which had best be broken or divided into two parts for easy cooking. The organs are not often used unless a very gamey flavor is liked. And now for the forcemeat method: Have the rabbit well cleaned, cut into sections, and wiped dry. Flay lightly. Have a skillet hot with neutral oil, and lay on each piece separately and saute on all sides until lightly browned. Remove all fat from skillet, and brown one or more cupsful of boiling

water or stock, reduce the heat to simmering, and continue cooking until the water is very tender. In this cooked form, the rabbit is ready to become the basis of a pot-pie, made with a thick cream sauce, or to have dumplings dropped over it and its gravy.

This cooking may be done in a deep frying-skillet, always with a lid, and it is better to cook it, even, also a slow fire; or in a deep kettle as in a meat pot-roast. The utensil does not matter, as long as the heat is slow, the lid kept covered, and the gravy not allowed to evaporate.

A "rabbit-pie" was ever a favorite in England and other countries where a hearty, substantial, and plain, and English fiction is full of exact descriptions of how it was made. Old elaborate menus of the middle-ages always include a rabbit pie, and the most luxuriously fashioned and heaped up crusts. In one of these ancient recipes, it calls for onions, minced ham, mushrooms, bay leaves, and a little lemon juice. The rabbit is to be cooked in a pot, and the gravy not allowed to evaporate.

The economical and popular dish called "Shepherd's Pie," and known to every thrifty housewife, is made into a glorified rabbit pie, and is a most delicious and easy to make. The meat is to be ground, and the gravy not allowed to evaporate. The rabbit is to be cooked in a pot, and the gravy not allowed to evaporate.

Another dish is rabbit with small white onions—just another variety of stew where the rabbit is to be cooked in a pot, and the gravy not allowed to evaporate. The rabbit is to be cooked in a pot, and the gravy not allowed to evaporate.

Another dish is rabbit with small white onions—just another variety of stew where the rabbit is to be cooked in a pot, and the gravy not allowed to evaporate. The rabbit is to be cooked in a pot, and the gravy not allowed to evaporate.

Russia's First "Talkie" Star

After months of voice tests, the directors came to the conclusion that Mlle. Vera Natacha, already famous for all over Russia, was their best bet and they engaged her to play the leading role in their first sound picture.

Mlle. Natacha, in addition to having a rich contralto voice that does not squeak over the mechanism of the sound reproducing device, is very good to look upon and is an able actress in either tragic or farcical roles. She is exceedingly fair of skin and thin features is emphasized by her dark eyes, which are framed in luxuriant lashes. She has often been likened in appearance and in her interpretations of movie roles to the late Barbara La Marr.

Russia's first venture in the talkies is still in production and probably will not be shown in the movie theatres of Leningrad and Moscow for several weeks, but it is said that she is, like many another made-in-Russia movie, thinly veiled propaganda for the Russian political experiments still going on in the former domain of the czar.

Critics who have seen reviews of part of the movie in the studios are enthusiastic over the selection of Mlle. Natacha as Russia's first talkie star and have little fear that she will be lured away from them by American movie magnates because she speaks practically no English. Like many of America's feminine talkie stars, Mlle. Natacha developed her English and her voice in many years of work in four legitimate stage productions.

To Be Continued Next Sunday.

WIVES-MOTHERS

WHAT IF HE LOSES HIS JOB?

The most tragic thing about unemployment is the arbitrary way in which it often affects kiddies, wives and mothers.

With long lines of applicants for every job—how can it be if he loses his job? How long would your savings last?

How long could he be sure of holding his job if he got sick?

Take No Chances

With Health This Year!

"The common, every-day cold causes more loss in dollars and cents than any other disease," says Dr. Damrau. That is how serious sickness begins—flu, grippe, pneumonia. (Send the coupon below for Dr. Damrau's book—free.)

This year of all years insist that HE wear correct health underwear! And you, and the children, too.

DUOFOLD Health Underwear—and DUOFOLD alone—is scientifically made with two very thin layers. It provides health protection unequalled by any other. All the



warmth of fine wool—but none of its itch. Wool combined with Persian cotton, rayon or silk, is in the thin outer layer. The wool can't touch the skin. The thin inner layer is soft cotton. Comfortable, indoors and out. Absorbs moisture which is evaporated in the outer layer, away from the skin. Checks sudden chills. Nothing like DUOFOLD! Ask for DUOFOLD and insist on getting it. Best dresses feature it in all popular styles.

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Thinc Hand Cream enables you to give your hands the superior treatment they require. It is a rich, creamy, quickly and easily absorbed preparation. It contains all the necessary ingredients to keep the hands in perfect condition. It takes only 2 minutes to thoroughly massage the hands with Thinc, and the results are astounding. Thinc penetrates deep down into the skin pores, gently softens the hidden dry patches which cause skin cracks and makes hands red and old-looking. Thinc instantly restores hands to their natural smooth, supple and young again. Get Thinc Hand Cream in 4 oz. tube or 1 lb. jar. Sold in all drug and 10 cent stores. Have the 10-cent quantity at 10¢. New York City. Approved by Food Inspection.

YOU ARE ONE OF 5,900,000 families who regularly read The American Weekly—the most interesting weekly magazine in America.

Recipes That Are a Little Different

By Mary Lee Swann,
The Well-Known Writer and Lecturer on Cooking.

Fried Chicken Surprise.

Carefully dry young chickens. Keep in an icebox overnight. Fry set on back of stove until dinner time. Serve on platter with a garnish of broiled pineapple, savory broiled tomatoes or baked stuffed tomatoes and paprika biscuits. Serve a crisp green salad with the chicken and a simple dessert.

Paprika Biscuit.

Mix and sift 2 cups flour, 4 teaspoons baking powder and 1 teaspoon salt. Work in 4 or 5 tablespoons butter with two forks or tips of fingers. Add a scant cup of milk and mix lightly. Turn out on floured board and pat and roll. Shape with a blue-cutter, brush over with milk and sprinkle with paprika. Bake in a hot oven.

Coffee Fritters.

Mix ½ cup strong coffee with 2 tablespoons sugar and a few grains salt. Cut stale bread in strips. Dip the strips into the coffee mixture. Cover each strip with fine bread crumbs. Then dip in ½ cup cream mixed with one well-beaten egg. Again cover with fine bread crumbs. Fry in hot, deep fat and drain on unglazed paper. Serve with old-fashioned coffee cream sauce.

Spiced Nuts.

BLANCH and dry nuts thoroughly. Roll in egg white, sprinkle with salt, powdered cloves and cinnamon and instant coffee. Let stand in a moderate oven until nuts are delicately browned.

Economy Dessert.

RESERVE about 1½ cups left-over coffee. Keep in icebox until ready for it. Soak 1 tablespoon gelatin in ¼ cup cold water, dissolve in the reheated coffee and add ¼ cup sugar.

When mixture begins to congeal beat ¼ of it till light and fluffy. With a tablespoon arrange thin and butter jelly alternately in serving-dishes and serve with plain or whipped cream.

Boiled Pig Knuckles.

WASH the pig knuckles, place them in a saucepan, cover with boiling water. To 4 knuckles add 3 sliced carrots, 1 sliced onion, a clove of garlic, a stalk of celery, juice of ½ lemon, 1 teaspoon allspice and 1 bay leaf. Boil for 1½ or 2 hours. Re-

duce heat and simmer until tender, or about 2½ hours. Add 1 tablespoon salt during the last half-hour of cooking. Serve hot with old-fashioned German potato dumplings or sauerkraut.

Date Nut Bread.

(For sandwiches.)

WASH and stone 1½ cups dates. Cut in pieces and pour 1½ cups boiling water over them. Add 2 tablespoons shortening, 1½ cups sugar and 1 teaspoon salt and let stand until cool. Add 1 beaten egg, 2½ cups sifted pastry flour sifted with

teaspoon soda and 1 teaspoon cream of tartar. Beat well and add 1 cup chopped walnut meats and ½ teaspoon vanilla. Mix thoroughly and turn into a greased and floured loaf pan and bake in a moderate oven, or at about 350 degrees, for 1½ hours.



Will you be a lovelier person by Dec. 15?

Here is a sensible, practical loveliness plan—The Thirty Day Loveliness Test.

This remarkable little book is free! Yet through it you may become (perhaps in just a few short weeks) a lovelier, more likeable, happier person.

Isn't there one unbreakable rule that underlies all modern femininity loveliness?

Hands, for instance, to be really beautiful must also be really clean. The recipe for high-lights in the hair is frequent generous shampooing.

Skin anywhere on the body that is cleansed thoroughly each day is apt to be clearer, healthier, more colorful. Especially is this true of the skin of the face, constantly exposed as it is to grime of all kinds.

And finally there is that mysterious quality of self-confidence and extra charm. Is there any better guess than that this comes on those mornings and those evenings when we just have had a cleansing bath . . . and in addition have treated ourselves to a complete change of clothes?

It isn't that we do not know these things about loveliness—and cleanliness. It's just that this is such a busy old world.

And right there is where this free little book *The Thirty Day Loveliness Test* is such a help. It provides you with an easy but carefully-worked out program to follow day-by-day.

As for the results that you may expect—say by December 15th, if you write at once—well, that is for you to find out! Use the coupon below—now!



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... now has
16 other jobs

That's the rapid rise in life enjoyed by every Pyrex cake dish in the land!

We made them to turn a good cake dish could hope to be . . . of heat-resisting glass 9 1/2" wide, 1 1/2" and 1 1/4" high. Both round and square. Then left them on their honor to bake perfect cake for any wife who wished one, and to leave all other foods alone.

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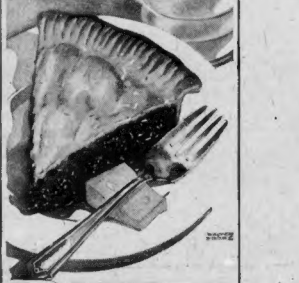


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OF COURSE, you'll have a None Such mince pie for Thanksgiving dinner—but why wait? The family will vote it the treat of treats every week during the cold months.

None Such flavor is deliciously different—and here's the reason! First, the care with which the ingredients are selected, and, second, the blending. Ripe fruits, the finest citrus peel for tartness, sugar, a little meat, and seven varieties of imported spices—blessed with all the skill that 45 years' experience in mince meat making can give. Small wonder that None Such finds its way to the kitchen tables—and the

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Your good features None Such in the familiar red package. Put it on your market list now—before it slips your mind. Treat the family to a "mince pie day" at least once a week this winter.



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Clean easily "the S.O.S. way"



Just
WET
the
PAD
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The
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American Weekly Patterns



A SMART STYLE (7344). Designed in 6 sizes: 34, 36, 38, 40, 42 and 44 inches bust measure. Size 38 will require 4½ yards of 35-inch material. Contrasting material will require ½ yard 38 inches wide.

A SIMPLE FROCK FOR MOTHER'S GIRL (7359). Designed in 4 sizes: 6, 8, 10 and 12 years. Size 8 will require 2½ yards of 35-inch material if made with long sleeves. With short sleeves, 2½ yards. Contrasting material requires ½ yard 35 inches wide.

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